

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6488
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January 15, 2010

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JAN 26 2010

UIC BRANCH
EPA REGION 5

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-11-0001 and IN-091-11-0002

Dear Mr. Tong:

The following Monthly Report for December 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,517,582,588	Gallons
Well #2	1,477,770,248	Gallons

Volume injected year-to-date

Well #1	98,616,491	Gallons
Well #2	56,156,242	Gallons

Volume injected this month

Well #1	5,944,665	Gallons
Well #2	6,364,458	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.

- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

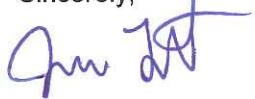
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

1) 12/14/09 to 12/15/09: Deepwell was stimulated per the approved plan.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC.
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 281-3397, (574) 287-2427 fax

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UJC BRANCH
EPA SECTION 5

WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

Criterion Catalyst
1800 East US Hwy 12
Michigan City, IN 46360

Attn:

Mr. Frank Pietrat

WEEK ENDING	UNITS	12/7/2009	12/14/2009	12/21/2009	12/28/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	7.89	7.70	7.64	7.73	7.69	150.1
Specific Gravity	g/ml	1.045	1.041	1.046	1.039	1.043	ASTM
Total Dissolved Solids	mg/L	50,526	46,108	47,086	41,978	46,425	160.1
Total Suspended Solids	mg/L	1.6	1.6	1.8	0.8	1.5	160.2
Sodium Oxide (Na2O)	mg/L	20,250	18,090	19,035	14,175	17,868	200.7
Aluminum Oxide (Al2O3)	mg/L	0.24	0.18	0.21	0.22	0.21	200.7
Silica (SiO2)	mg/L	6.92	4.20	6.55	4.65	5.58	200.7
Sulfate (SO4)	mg/L	35,947	34,544	39,317	29,686	34,874	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by: *Miller M. Wolf*
Date: 1-10-10

JAN 26 2010

ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1**December, 2009**

Date	Avg.	Flow Rate (gpm) Max	Min.	Injection Pressure (psig) Avg.	Max	Min.	Annulus Pressure (psig) Avg.	Max	Min.	Annulus Level (%) Avg.	Max	Total Flow Injected	Min. Tube/Annulus Differential Pressure	UIC BRANCH	Temp.	Note
1-Dec	199	253	0	593	694	51	1,097	1,138	979	53	55	47	286,074	366	116	
2-Dec	219	232	203	690	719	644	1,117	1,135	1,101	55	56	55	315,160	386	118	
3-Dec	217	231	209	718	739	702	1,086	1,105	1,056	55	56	55	313,112	322	117	
4-Dec	169	255	0	615	762	54	1,029	1,109	898	54	57	48	243,330	230	115	
5-Dec	224	267	0	698	761	81	1,037	1,073	901	55	57	48	322,920	231	117	
6-Dec	212	262	0	650	746	33	1,028	1,062	930	56	58	51	305,493	253	117	
7-Dec	78	228	0	288	719	2	926	1,049	809	51	57	44	112,326	227	112	
8-Dec	165	224	0	535	670	31	985	1,035	846	45	48	42	237,390	247	104	
9-Dec	95	209	0	318	658	21	945	1,032	887	43	48	40	136,084	299	103	
10-Dec	98	182	0	363	586	35	905	951	849	43	46	39	141,272	332	100	
11-Dec	162	280	0	485	721	57	888	1,133	804	43	55	35	232,732	265	100	
12-Dec	240	277	66	706	729	330	1,133	1,142	1,091	55	55	54	346,258	402	119	
13-Dec	228	232	220	728	741	709	1,157	1,170	1,133	56	57	55	328,512	413	121	
14-Dec	212	254	0	689	768	69	1,138	1,176	1,052	56	58	53	304,809	306	121	
15-Dec	177	242	0	575	746	79	987	1,054	895	51	54	46	254,690	241	112	
16-Dec	7	38	0	36	194	0	821	895	787	41	46	38	10,582	642	98	
17-Dec	50	66	0	240	297	21	858	907	780	43	46	37	71,292	503	106	
18-Dec	51	76	0	242	340	117	918	930	900	47	48	46	73,536	569	112	
19-Dec	78	123	19	349	512	118	941	1,043	895	48	54	46	112,721	471	114	
20-Dec	119	134	107	520	552	485	1,027	1,053	995	53	55	52	170,855	485	119	
21-Dec	126	130	121	561	569	546	1,043	1,052	1,034	55	56	55	181,296	470	121	
22-Dec	96	130	33	466	573	186	967	1,055	882	52	56	47	138,872	425	115	
23-Dec	67	95	0	363	460	67	808	882	770	43	48	40	96,357	388	100	
24-Dec	75	85	0	391	413	185	764	790	754	40	42	39	107,467	360	96	
25-Dec	92	100	0	427	456	131	812	822	779	44	44	41	132,521	358	103	
26-Dec	89	100	0	422	459	170	809	816	795	44	44	43	127,960	350	103	
27-Dec	99	120	38	454	514	202	822	890	791	45	50	43	143,134	288	106	
28-Dec	127	133	115	546	559	508	942	955	890	53	54	50	183,375	363	117	
29-Dec	128	138	120	564	586	542	960	952	952	54	54	54	184,059	372	119	
30-Dec	101	137	19	470	587	243	893	958	838	50	54	47	144,800	309	113	
31-Dec	129	143	89	553	592	446	944	988	885	52	54	48	185,677	322	116	
Summary	133	280	0	492	768	0	961	1176	754	49	58	35	5,944,665	227	111	

ATTACHMENT III

DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #2

December, 2009

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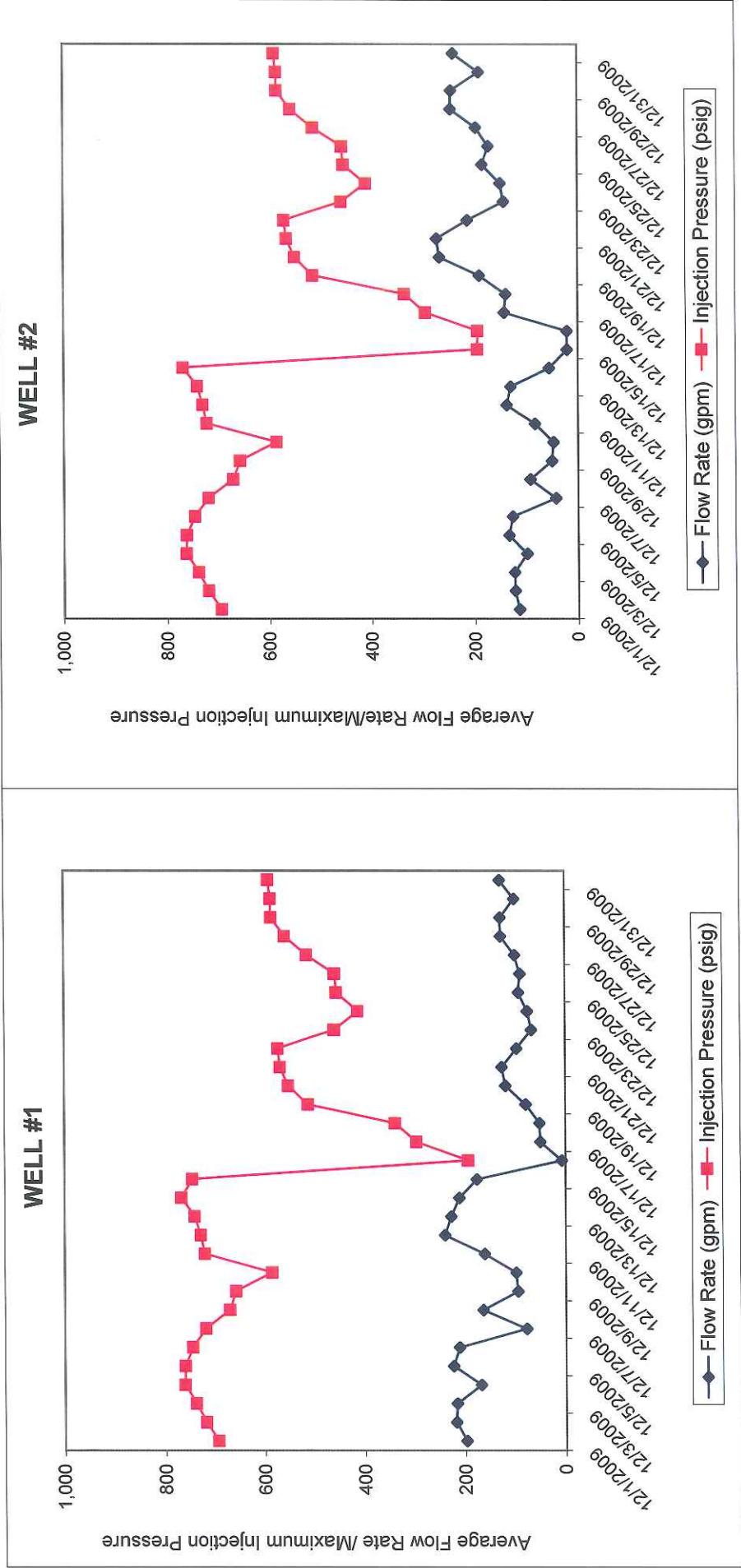
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UIC BRANCH

FBI - BIRMINGHAM

Date	Flow Rate (gpm) Avg.	Max	Min.	Injection Pressure (psig) Avg.	Max	Min.	Annulus Pressure (psig) Avg.	Max	Min.	Annulus Level (%) Avg.	Max	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Dec	115	152	0	594	695	52	981	1,057	838	62	65	58	165,226	242	115	
2-Dec	123	134	111	691	720	645	1,019	1,057	990	64	65	63	176,557	270	117	
3-Dec	124	138	118	719	740	702	956	990	918	65	65	64	178,140	182	117	
4-Dec	100	171	0	616	764	55	997	1,096	875	62	66	56	143,922	174	114	
5-Dec	135	169	0	699	763	82	977	1,007	876	64	66	57	193,888	197	116	
6-Dec	128	163	0	651	747	34	986	1,030	862	64	66	60	183,651	190	117	
7-Dec	44	135	0	289	720	3	877	1,008	761	60	65	54	63,079	172	112	
8-Dec	93	134	0	535	671	32	922	968	796	54	57	51	134,145	198	104	
9-Dec	52	117	0	319	658	22	861	943	805	53	58	51	74,292	210	102	
10-Dec	48	95	0	364	587	36	807	848	754	53	55	50	69,454	240	99	
11-Dec	84	169	0	490	723	52	843	1,080	711	53	63	48	121,214	166	99	
12-Dec	139	168	0	707	731	332	1,050	1,080	1,022	64	65	63	199,445	308	119	
13-Dec	131	135	124	728	742	710	1,021	1,028	999	67	68	65	188,504	257	121	
14-Dec	57	151	0	382	770	0	857	1,004	592	61	69	43	81,730	228	116	1
15-Dec	22	153	0	70	196	9	629	733	516	49	59	36	31,816	409	94	1
16-Dec	22	375	0	34	196	0	644	732	580	54	59	51	31,285	491	96	
17-Dec	143	187	0	239	297	22	726	782	636	59	64	52	205,986	366	106	
18-Dec	140	204	0	241	338	115	771	785	743	64	65	63	201,450	405	112	
19-Dec	192	286	19	348	514	117	774	856	741	65	71	63	276,000	290	114	
20-Dec	268	305	242	518	550	484	824	860	789	70	72	69	386,039	282	119	
21-Dec	274	280	267	559	566	544	818	836	810	72	73	72	394,677	246	121	
22-Dec	214	278	68	465	571	185	733	818	647	69	73	62	308,376	191	115	
23-Dec	144	209	0	362	460	67	678	755	640	57	62	55	206,969	258	99	
24-Dec	150	170	0	390	412	184	636	781	626	55	57	54	215,946	231	95	
25-Dec	186	207	0	426	455	131	779	785	762	57	57	55	267,186	317	102	
26-Dec	173	195	0	421	458	170	759	772	751	57	57	57	249,242	304	102	
27-Dec	198	238	57	453	513	207	760	823	733	59	64	57	284,497	220	105	
28-Dec	247	255	230	545	558	507	862	873	823	67	68	64	355,055	297	117	
29-Dec	246	260	231	562	585	542	856	862	840	69	69	68	353,624	255	118	
30-Dec	191	259	33	469	586	243	819	912	726	64	69	59	275,400	187	112	
31-Dec	241	266	173	551	590	445	927	969	876	64	67	61	347,663	314	115	
Summary	143	375	0	466	770	0	843	1096	516	61	73	36	6,364,458	166	110	

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
December, 2009

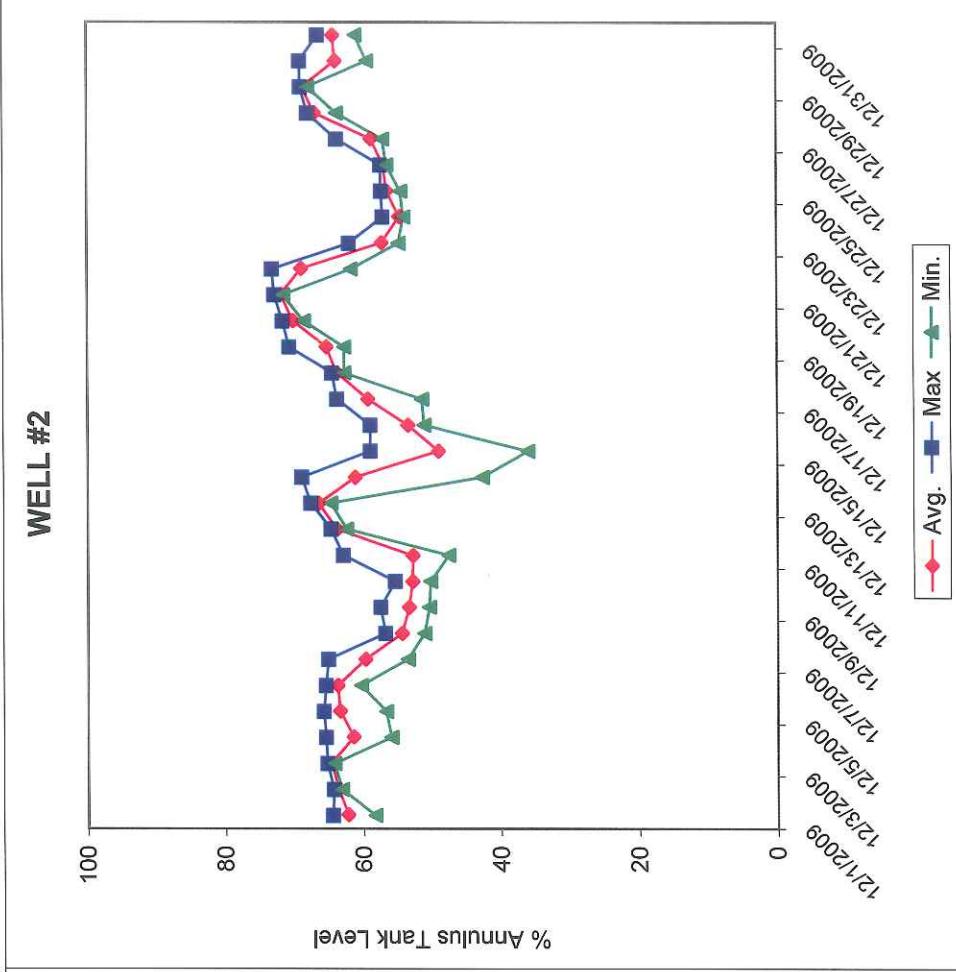
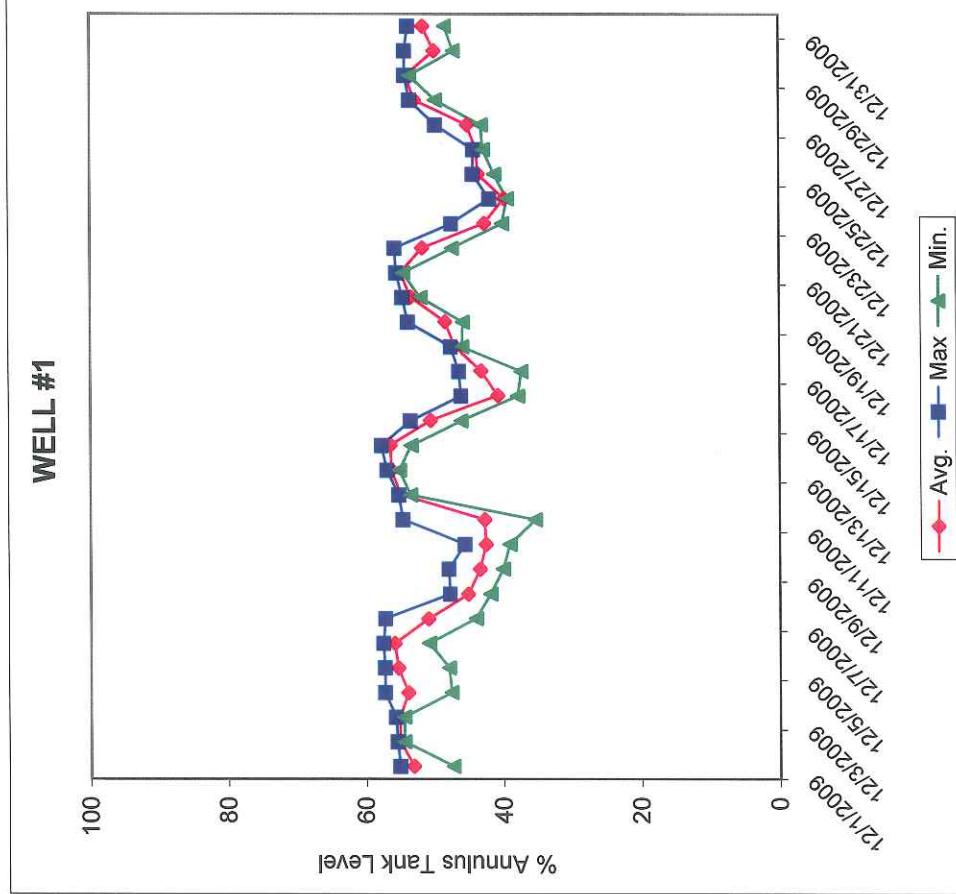


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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
December, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
December, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1
Aug-2009	0	-1
Sep-2009	0	-1
Oct-2009	0	-1
Nov-2009	0	-1
Dec-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0
Aug-2009	0	0
Sep-2009	0	0
Oct-2009	0	0
Nov-2009	0	0
Dec-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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December 15, 2009

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-11-0001 and IN-091-11-0002

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DEC 22 2009

UIC BRANCH
EPA REGION 5

Dear Mr. Tong:

The following Monthly Report for November 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,511,637,923	Gallons
Well #2	1,471,405,790	Gallons

Volume injected year-to-date

Well #1	92,671,826	Gallons
Well #2	49,791,784	Gallons

Volume injected this month

Well #1	8,007,021	Gallons
Well #2	4,814,773	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.

- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

1) 11/27/09 8:44 AM: Injection alarm shutdown from low annulus-injection differential pressure. The minimum differential pressure during the event was 141 PSI. The annulus pressure was increased and injection was resumed.

Well #2: The following non-compliance event(s) occurred:

None occurred.

Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

RECEIVED		REC'D 12/22/2009	UIC BRANCH EPA REGION 5					
		WEEKLY DEEPWELL ANALYSIS MONTH-END SUMMARY						
<u>Client:</u>	Criterion Catalyst 1800 East US Hwy 12 Michigan City, IN 46360							
<u>Attn:</u>	Mr. Frank Pierrat							
WEEK ENDING	UNITS	11/1/2009	11/15/2009	11/18/2009	11/23/2009	11/30/2009	AVERAGE	METHOD
pH @ 25.7 C	5.u.	6.95	6.94	7.05	7.10	6.95	7.00	150.1
Specific Gravity	g/mL	1.045	1.043	1.044	1.044	1.028	1.041	ASTM
Total Dissolved Solids	mg/L	57,594	48,190	52,342	53,510	27,400	47,807	160.1
Total Suspended Solids	mg/L	2.0	1.2	1.8	1.8	0.8	1.52	160.2
Sodium Oxide (Na2O)	mg/L	14,040	13,041	15,930	15,525	9,194	13,546	200.7
Aluminum Oxide (Al2O3)	mg/L	0.24	0.14	0.15	0.2	0.22	0.19	200.7
Silica (SiO2)	mg/L	0.15	0.21	0.13	0.14	0.26	0.18	200.7
Sulfate (SO4)	mg/L	38,137	33,669	34,793	41,616	21,273	33,898	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. EPA Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by *[Signature]* Date: *12/15/09*

ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1

November, 2009

Date	Flow Rate (gpm)	Injection Pressure (psig)			Annulus Pressure (psig)			Annulus Level (%)			Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max			
1-Nov	213	250	0	639	695	56	1,025	1,053	965	58	60	55	306,944	327 111
2-Nov	202	239	0	624	689	59	1,031	1,057	985	59	60	57	290,301	345 113
3-Nov	178	239	78	584	679	326	988	1,031	946	58	60	56	256,880	296 110
4-Nov	174	238	0	554	668	52	968	1,007	935	58	60	56	250,626	287 110
5-Nov	194	240	0	614	694	65	1,021	1,043	977	61	62	59	278,685	317 115
6-Nov	200	239	165	648	715	581	1,031	1,064	956	62	64	59	287,884	338 117
7-Nov	196	247	66	647	743	262	1,053	1,084	984	64	65	61	282,456	316 119
8-Nov	189	209	168	665	700	624	1,053	1,076	1,036	64	65	63	272,692	357 119
9-Nov	195	210	166	670	699	611	1,040	1,057	1,017	63	64	63	280,693	340 119
10-Nov	210	260	0	702	780	208	1,040	1,131	983	64	68	62	302,555	277 120
11-Nov	254	247	789	793	779	1,133	1,143	1,124	69	70	68	365,513	331 127	
12-Nov	243	252	33	789	793	311	1,111	1,124	1,068	70	71	69	349,548	309 127
13-Nov	240	244	68	792	793	429	1,105	1,113	1,074	71	71	70	345,687	305 128
14-Nov	237	242	224	792	793	792	1,087	1,103	1,073	71	72	71	340,627	281 128
15-Nov	227	233	220	793	794	792	1,074	1,131	965	70	72	66	326,906	172 126
16-Nov	232	251	221	792	793	791	1,065	1,141	979	67	69	65	334,638	187 124
17-Nov	206	251	0	684	792	53	976	1,025	889	63	66	57	295,985	189 118
18-Nov	234	264	0	729	785	75	1,059	1,082	996	61	62	58	337,200	287 119
19-Nov	227	238	165	733	752	612	1,052	1,081	1,001	61	62	59	326,877	259 119
20-Nov	248	260	234	766	785	745	1,048	1,059	1,034	62	63	61	357,205	259 120
21-Nov	209	272	50	672	771	258	990	1,040	919	59	62	57	301,175	197 117
22-Nov	230	272	164	717	775	602	1,041	1,054	1,020	60	61	59	330,827	272 119
23-Nov	130	248	0	456	753	35	952	1,054	825	57	61	50	187,660	235 114
24-Nov	0	0	0	20	35	13	733	825	751	46	50	44	0	738 100
25-Nov	2	99	0	14	359	2	739	751	715	43	44	41	2,990	356 97
26-Nov	34	104	0	186	436	45	700	720	682	40	42	38	49,475	277 86
27-Nov	65	189	0	241	560	41	789	888	669	35	41	29	93,842	141 79
28-Nov	208	274	83	532	658	250	1,043	1,215	812	44	55	29	299,760	347 103
29-Nov	153	280	0	457	696	11	1,088	1,216	1,011	50	55	47	220,584	375 112
30-Nov	230	255	0	649	699	50	1,171	1,188	1,088	56	57	53	330,806	466 119
Summary	185	280	0	598	794	2	1007	1216	669	59	72	29	8,007,021	141 114

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ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #2

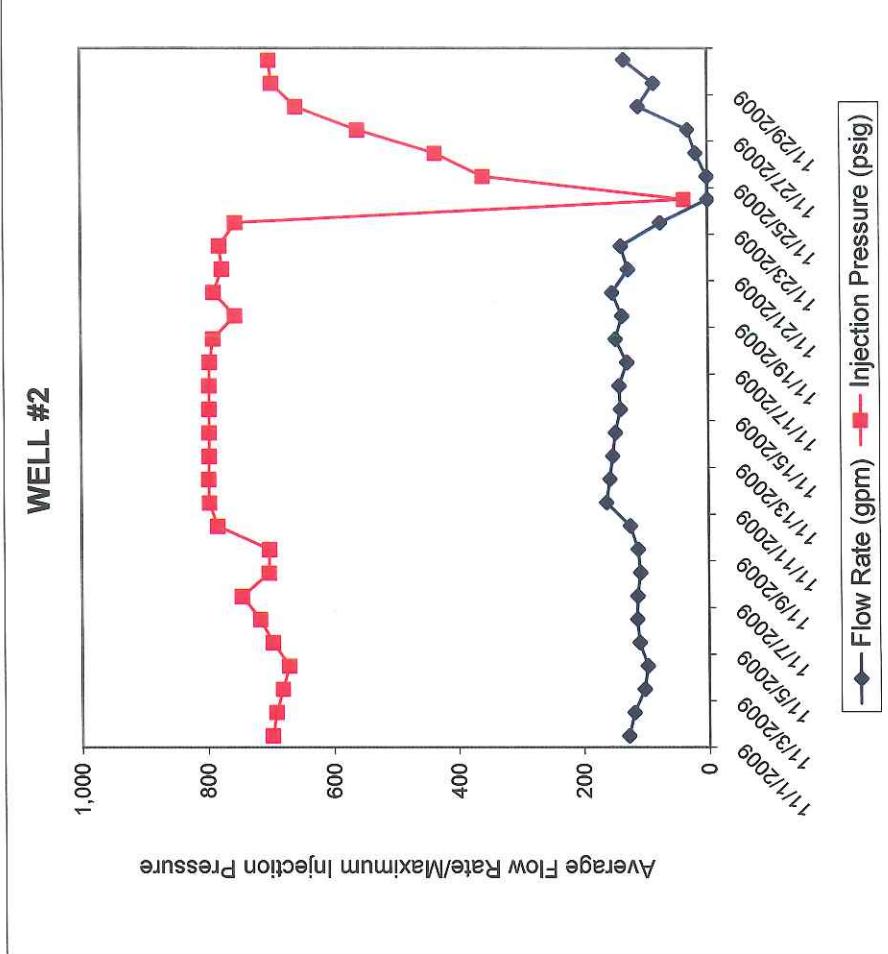
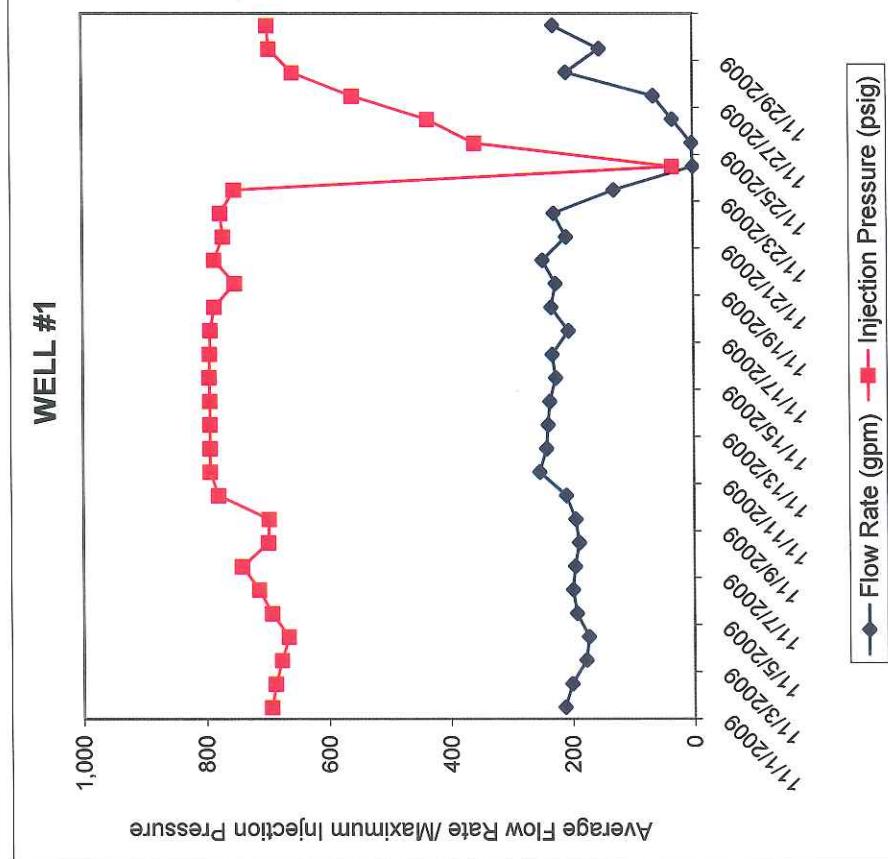
November, 2009

Date	Flow Rate (gpm) Avg.	Flow Rate (gpm) Max.	Flow Rate (gpm) Min.	Injection Pressure (psig) Avg.	Injection Pressure (psig) Max.	Injection Pressure (psig) Min.	Annulus Pressure (psig) Avg.	Annulus Pressure (psig) Max.	Annulus Level (%) Avg.	Annulus Level (%) Max.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note	
1-Nov	129	156	0	642	699	61	966	984	919	59	62	57	185,662	256	110
2-Nov	120	147	0	627	693	63	959	1,002	904	61	62	59	172,706	264	112
3-Nov	104	147	0	588	683	335	938	995	891	59	61	58	149,805	228	109
4-Nov	99	144	0	558	673	56	889	922	862	60	62	58	141,936	204	109
5-Nov	111	146	0	618	698	68	907	921	870	64	65	61	160,489	211	114
6-Nov	115	147	91	652	718	585	1,002	1,058	837	63	64	60	165,556	213	116
7-Nov	114	151	38	651	747	268	997	1,015	947	65	67	62	164,714	262	118
8-Nov	110	124	97	669	704	628	953	996	938	67	68	66	158,489	235	119
9-Nov	114	126	97	674	703	615	906	938	871	68	68	68	163,677	193	119
10-Nov	126	166	0	706	784	212	981	1,068	841	67	71	64	181,096	170	120
11-Nov	164	159	794	797	784	1,042	1,068	1,009	73	74	71	235,497	212	127	
12-Nov	158	165	33	794	798	319	1,053	1,114	991	73	74	72	227,619	194	127
13-Nov	153	160	0	796	797	428	1,016	1,151	983	75	76	72	220,577	186	128
14-Nov	149	154	142	797	797	797	1,069	1,131	1,033	74	75	73	214,099	236	128
15-Nov	141	147	133	797	797	797	1,048	1,128	974	72	76	68	202,641	177	126
16-Nov	142	161	133	797	797	796	1,061	1,141	992	70	72	66	205,096	195	123
17-Nov	130	161	0	688	796	57	995	1,070	878	65	67	60	186,765	170	117
18-Nov	148	172	0	733	790	79	1,033	1,047	984	65	67	63	213,197	243	119
19-Nov	137	148	99	738	756	617	990	1,025	919	67	68	64	197,982	168	119
20-Nov	153	166	141	770	789	749	1,054	1,126	976	66	67	64	221,031	200	119
21-Nov	128	174	42	676	776	265	998	1,070	926	64	66	61	183,725	188	116
22-Nov	139	173	97	721	780	607	1,009	1,042	987	65	67	64	200,426	257	118
23-Nov	77	156	0	459	755	39	969	1,080	867	61	67	54	110,506	183	113
24-Nov	0	0	0	17	39	8	801	867	776	51	54	50	0	768	95
25-Nov	1	57	0	10	360	0	757	776	736	49	50	49	1,667	376	90
26-Nov	19	60	0	186	436	45	711	736	698	47	49	46	27,031	291	83
27-Nov	32	99	0	242	560	41	788	884	679	43	48	37	46,433	146	76
28-Nov	111	161	0	533	659	257	990	1,129	805	52	62	38	159,655	319	102
29-Nov	87	171	0	457	697	12	991	1,124	923	58	62	55	124,911	270	112
30-Nov	133	151	0	650	701	50	1,034	1,062	957	64	65	62	191,785	314	119
Summary	111	174	0	601	798	0	964	1151	679	63	76	37	4,814,773	146	113

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ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
November, 2009

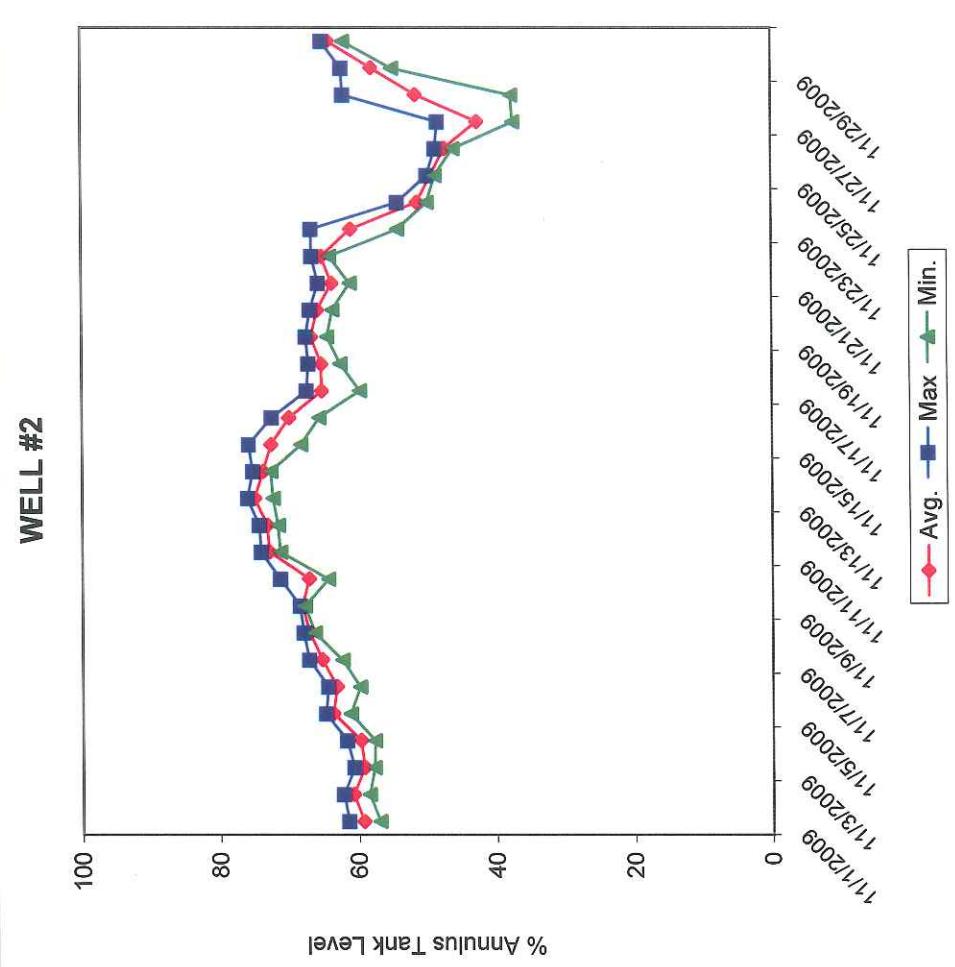
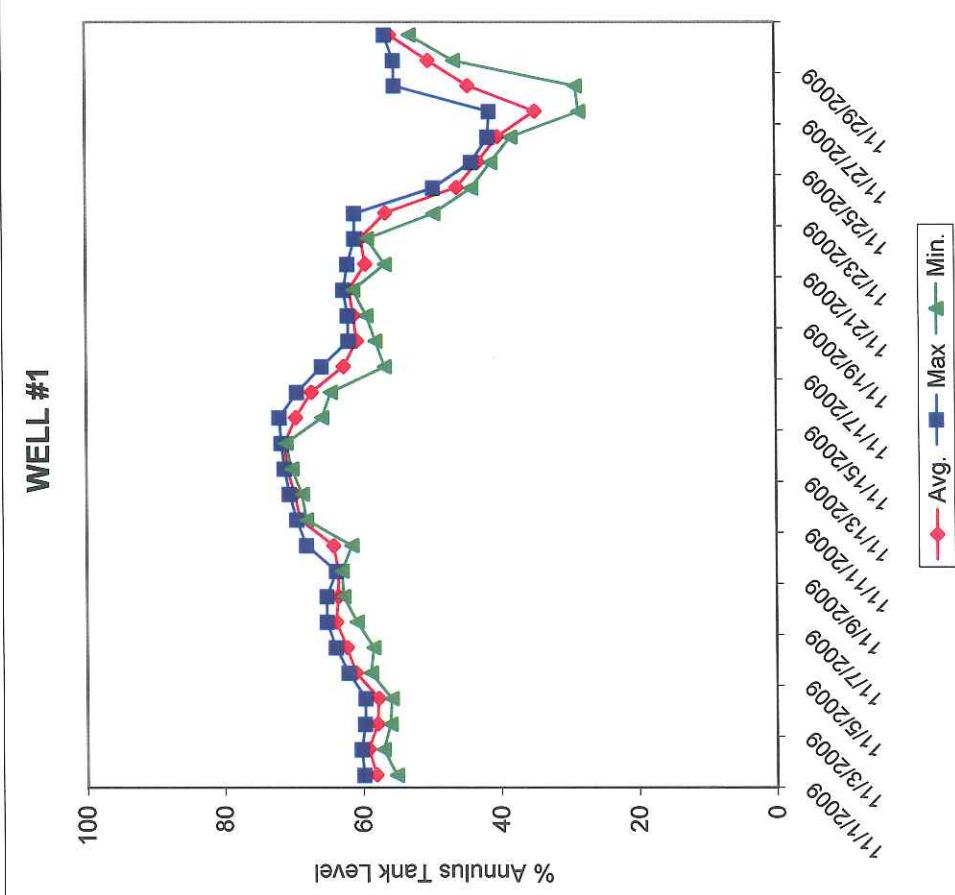


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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
November, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
November, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1
Aug-2009	0	-1
Sep-2009	0	-1
Oct-2009	0	-1
Nov-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0
Aug-2009	0	0
Sep-2009	0	0
Oct-2009	0	0
Nov-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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November 15, 2009

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-11-0001 and IN-091-11-0002

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UIC BRANCH
EPA REGION 5

Dear Mr. Tong:

The following Monthly Report for October 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected
Well #1 1,503,630,902 Gallons
Well #2 1,466,591,017 Gallons

Volume injected year-to-date
Well #1 84,664,806 Gallons
Well #2 44,977,010 Gallons

Volume injected this month
Well #1 9,226,701 Gallons
Well #2 5,799,682 Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

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Well #1: The following non-compliance event(s) occurred:

None occurred.

10/29/2009

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

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Well #2: The following non-compliance event(s) occurred:

None occurred.

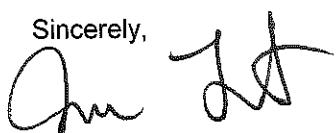
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

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WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

Client:

Criterion Catalyst
1800 East US HWY 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

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EPA REGION 5

NOV 20 2009

WEEK ENDING	UNITS	10/5/2009	10/12/2009	10/19/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.88	7.14	7.10	7.20	7.08
Specific Gravity	g/mL	1.016	1.042	1.042	1.043	1.036
Total Dissolved Solids	mg/L	17,568	48,472	44,308	49,884	40,058
Total Suspended Solids	mg/L	0.4	0.8	0.8	1.2	0.80
Sodium Oxide (Na2O)	mg/L	5,022	17,145	18,400	17,800	14,592
Aluminum Oxide (Al2O3)	mg/L	0.17	0.15	0.16	0.19	0.17
Silica (SiO2)	mg/L	3.08	1.15	2.09	4.67	2.75
Sulfate (SO4)	mg/L	17,568	48,472	44,308	49,884	40,058
						A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater

Approved by: _____

Date: _____

Mark M. Schuck
11/9/09

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ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1

October, 2009

NOV 20 2009 *

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Date	Flow Rate (gpm)			Injection Pressure (psig)			Annulus Pressure (psig)			Annulus Level (%)			Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.				
1-Oct	24	93	0	115	349	25	588	610	563	50	53	47	34,722	220	77	
2-Oct	94	173	0	308	489	25	726	826	575	52	57	48	135,054	180	89	
3-Oct	135	252	46	422	629	221	856	925	821	60	65	57	194,383	280	104	
4-Oct	250	270	219	663	713	621	987	1,021	925	69	72	65	360,162	296	116	
5-Oct	245	272	111	694	724	445	996	1,024	963	72	72	70	353,437	252	119	
6-Oct	258	274	187	729	754	625	993	1,013	926	73	74	71	371,396	205	119	
7-Oct	194	255	0	624	730	58	903	961	824	70	73	64	278,802	181	114	
8-Oct	259	276	228	757	778	706	1,023	1,044	917	71	72	69	372,663	211	118	
9-Oct	248	281	0	750	792	156	1,008	1,020	954	72	73	71	356,474	200	119	
10-Oct	206	289	0	669	792	93	994	1,043	932	70	73	66	296,456	180	117	
11-Oct	171	218	73	585	697	365	944	1,004	859	62	66	60	246,915	194	107	
12-Oct	189	235	19	630	688	266	992	1,002	959	63	63	62	272,650	297	110	
13-Oct	223	264	0	666	722	165	987	1,001	965	64	65	63	320,437	279	111	
14-Oct	207	244	169	652	701	595	973	991	935	65	66	64	298,673	288	112	
15-Oct	221	258	42	684	758	295	996	1,106	900	66	72	61	318,082	223	115	
16-Oct	159	246	0	532	723	56	939	1,052	846	65	70	60	228,349	207	113	
17-Oct	250	257	239	747	774	713	1,090	1,122	988	73	75	68	359,687	261	124	
18-Oct	228	248	160	730	767	607	967	1,028	879	70	72	66	328,058	169	118	
19-Oct	223	255	0	691	764	53	991	1,045	913	69	71	62	320,406	178	118	
20-Oct	245	267	54	756	791	332	1,037	1,060	999	69	70	67	352,777	225	119	
21-Oct	256	276	0	765	789	113	1,061	1,078	990	71	72	68	368,323	254	122	
22-Oct	250	266	42	762	794	300	1,049	1,073	995	72	72	70	360,020	221	122	
23-Oct	260	266	121	784	793	470	1,036	1,076	995	71	72	70	374,729	208	121	
24-Oct	220	268	0	700	794	69	1,024	1,052	925	70	71	63	317,474	194	120	
25-Oct	189	259	0	600	753	46	989	1,096	872	66	71	61	271,849	180	117	
26-Oct	242	247	230	757	764	736	1,066	1,094	1,050	71	71	70	348,356	287	122	
27-Oct	242	246	231	762	768	739	1,068	1,077	1,057	71	72	71	348,809	292	124	
28-Oct	224	251	0	732	781	110	1,019	1,057	897	70	71	65	322,190	232	121	
29-Oct	163	229	0	595	698	73	959	1,037	806	57	65	53	234,863	166	106	
30-Oct	118	239	0	397	701	34	972	1,034	908	53	57	50	170,294	262	105	
31-Oct	215	250	186	635	680	596	1,016	1,026	979	57	58	54	310,212	316	109	
Summary	207	289	0	642	794	25	976	1122	563	66	75	47	9,226,701	166	114	

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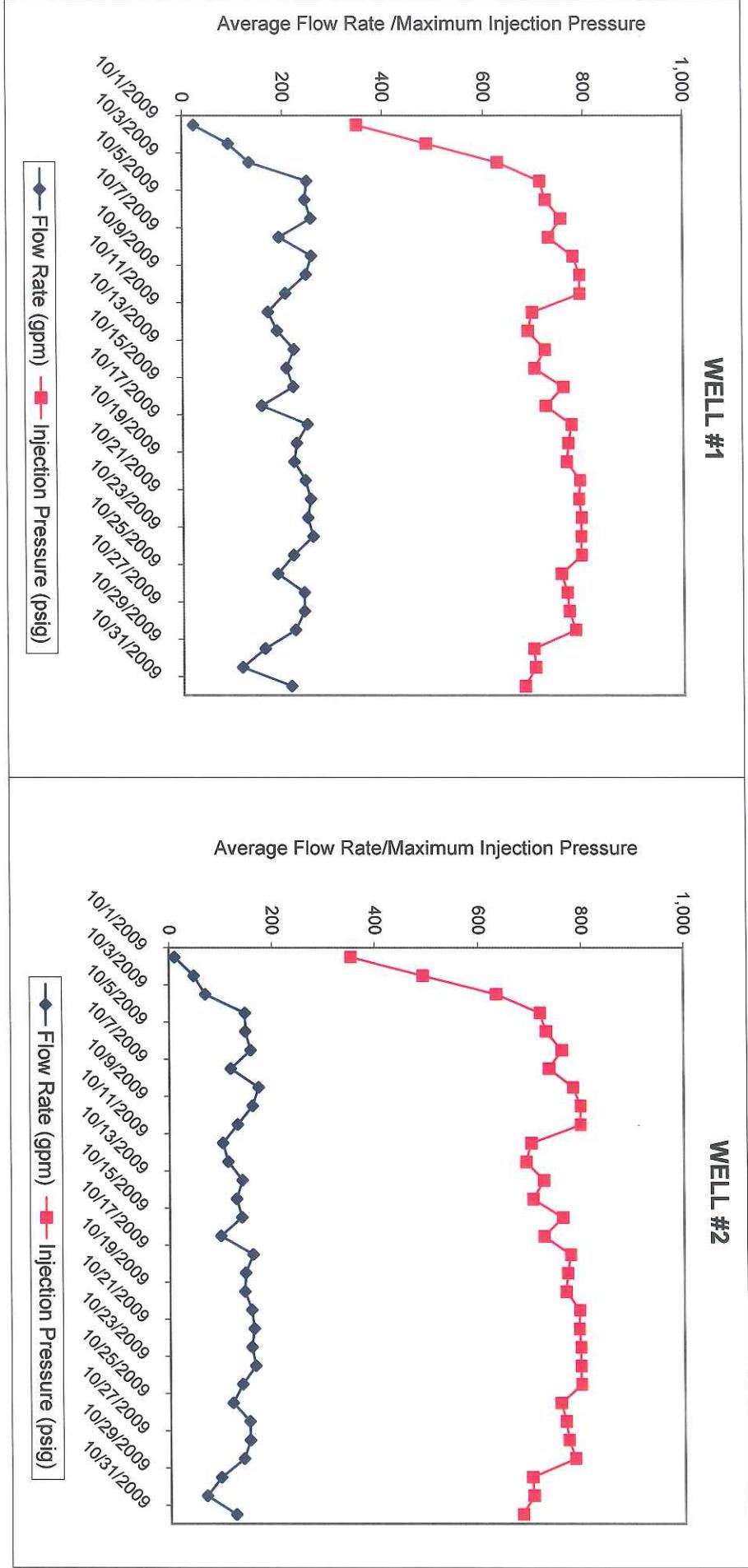
ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #2
October, 2009

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**UIC BRANCH
EPA REGION 5**

Date	Avg.	Flow Rate (gpm) Max	Min.	Injection Pressure (psig) Avg.	Max	Annulus Pressure (psig) Avg.	Max	Annulus Level (%) Avg.	Max	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note		
1-Oct	11	46	0	120	354	31	587	604	566	46	48	44	15,784	216	74
2-Oct	48	95	0	314	494	31	718	808	575	47	52	43	69,317	167	88
3-Oct	71	152	0	427	635	226	830	890	805	54	59	52	101,660	240	103
4-Oct	148	168	126	669	719	628	942	968	890	64	67	59	213,318	246	116
5-Oct	149	166	0	700	731	444	951	1,009	903	67	68	65	213,971	184	118
6-Oct	159	172	106	735	761	631	978	989	904	67	69	65	228,599	177	119
7-Oct	120	160	0	630	737	63	889	950	831	64	68	59	173,242	166	113
8-Oct	174	198	148	763	783	712	1,021	1,054	904	65	67	63	250,597	191	118
9-Oct	162	194	0	756	798	161	997	1,037	975	67	68	66	233,707	193	119
10-Oct	133	194	0	674	798	99	981	1,030	906	65	68	61	192,144	166	117
11-Oct	105	138	0	589	702	372	935	997	837	57	61	55	150,569	173	106
12-Oct	114	151	0	634	692	270	962	989	922	58	59	58	164,664	258	109
13-Oct	142	176	0	670	726	168	956	997	926	60	61	59	204,452	219	110
14-Oct	131	162	102	656	705	598	930	964	882	61	62	60	188,283	236	111
15-Oct	141	170	0	687	762	306	968	1,072	844	63	68	57	203,229	174	114
16-Oct	100	161	0	536	726	60	898	1,022	816	62	67	58	143,715	166	113
17-Oct	162	170	152	751	777	718	1,009	1,056	928	71	73	66	233,994	178	124
18-Oct	148	168	99	733	771	610	979	1,037	890	66	69	61	212,668	195	117
19-Oct	146	172	0	695	768	58	997	1,067	882	65	66	61	210,573	204	117
20-Oct	160	178	0	760	795	339	1,041	1,085	1,000	66	67	64	229,814	208	119
21-Oct	164	187	0	769	794	117	1,009	1,030	979	69	71	66	236,276	201	122
22-Oct	159	174	0	767	797	306	990	1,018	922	70	71	68	229,274	165	122
23-Oct	166	175	33	789	797	477	1,044	1,099	984	68	69	66	239,448	193	121
24-Oct	141	179	0	704	798	74	1,010	1,052	929	67	69	61	203,340	169	120
25-Oct	122	164	0	604	757	51	976	1,054	881	64	70	59	176,014	177	117
26-Oct	155	161	144	761	767	740	995	1,049	967	70	71	69	222,793	213	122
27-Oct	155	160	147	766	772	744	1,000	1,079	951	71	72	70	223,560	180	123
28-Oct	144	164	0	737	785	114	1,011	1,077	916	69	71	65	206,707	206	121
29-Oct	99	146	0	598	701	78	953	1,042	811	57	65	53	141,950	168	105
30-Oct	71	149	0	401	704	38	930	1,005	864	54	57	51	102,025	207	104
31-Oct	128	154	106	638	683	599	951	993	919	58	59	55	183,995	253	108
Summary	130	198	0	646	798	31	950	1,099	566	63	73	43	5,799,682	165	113

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
October, 2009

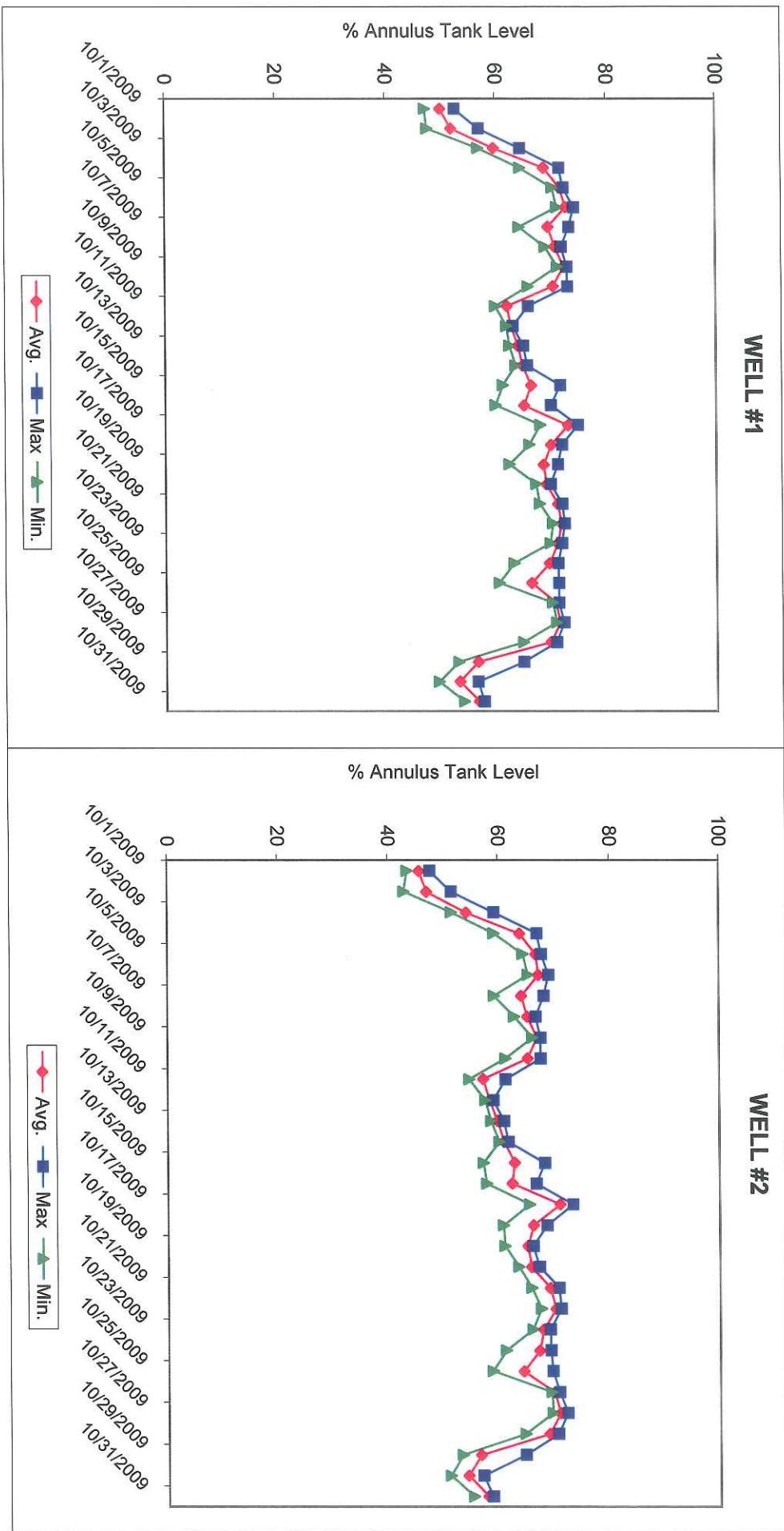


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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
October, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
October, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1
Aug-2009	0	-1
Sep-2009	0	-1
Oct-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0
Aug-2009	0	0
Sep-2009	0	0
Oct-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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EPA REGION 5

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October 15, 2009

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

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OCT 20 2009

UIC BRANCH
EPA REGION 5

Dear Mr. Tong:

The following Monthly Report for September 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,494,404,201	Gallons
Well #2	1,460,791,335	Gallons

Volume injected year-to-date

Well #1	75,438,104	Gallons
Well #2	39,177,329	Gallons

Volume injected this month

Well #1	3,717,585	Gallons
Well #2	2,150,481	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

OCT 20 2009

JIC BRANCH
EPA SECTION

Client:

Criterion Catalyst
1800 East US Hwy 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

WEEK ENDING	UNITS	9/7/2009	9/15/2009	9/21/2009	9/28/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	7.08	7.06	6.95	6.91	7.00	150.1
Specific Gravity	g/mL	1.028	1.042	1.041	1.013	1.031	ASTM
Total Dissolved Solids	mg/L	35,914	50,194	48,908	13,414	37,108	160.1
Total Suspended Solids	mg/L	1.2	2.0	2.0	0.8	1.5	160.2
Sodium Oxide (Na2O)	mg/L	11,030	15,390	1,445	7,628	8,873	200.7
Aluminum Oxide (Al2O3)	mg/L	0.12	0.08	0.09	0.1	0.10	200.7
Silica (SiO2)	mg/L	2.02	1.89	1.82	2.14	1.97	200.7
Sulfate (SO4)	mg/L	25,408	33,466	34,161	482	23,379	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by Hill, M.L. Date: 10/12/09

ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1
September, 2009

Date	Flow Rate (gpm)			Injection Pressure (psig)			Annulus Pressure (psig)			Annulus Level (%)			Total Flow Injected	Min. Tube/Annulus	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.		Differential Pressure		
1-Sep	196	266	0	596	705	52	1,048	1,111	968	66	68	61	281,539	306	115	
2-Sep	216	262	168	686	742	599	1,033	1,048	1,018	67	68	67	311,375	291	115	
3-Sep	205	224	169	690	715	630	1,042	1,079	1,020	68	70	67	295,306	318	116	
4-Sep	207	234	0	676	725	77	1,040	1,079	965	69	70	66	297,820	311	117	
5-Sep	200	276	0	635	760	79	996	1,053	870	68	70	62	288,165	206	113	
6-Sep	201	276	0	631	763	58	1,040	1,079	939	68	69	63	289,485	278	115	
7-Sep	195	242	0	628	726	64	1,049	1,075	975	69	70	66	280,227	314	117	
8-Sep	154	192	73	561	639	328	1,038	1,051	998	69	70	67	221,463	409	118	
9-Sep	187	274	102	637	793	472	1,054	1,140	1,011	71	74	69	268,896	288	119	
10-Sep	219	231	169	706	727	620	1,042	1,059	1,027	71	72	71	315,221	304	119	
11-Sep	228	232	218	741	750	721	1,046	1,059	1,034	72	73	72	328,545	287	120	
12-Sep	223	234	213	729	753	715	975	1,037	939	71	73	69	321,086	213	116	
13-Sep	43	234	0	180	739	22	833	980	746	64	71	59	61,297	238	113	
14-Sep	16	138	0	87	518	12	757	836	726	60	65	58	22,977	274	108	
15-Sep	0	0	0	18	25	12	705	728	688	57	58	56	0	675	102	
16-Sep	0	0	0	8	12	5	671	688	649	58	59	56	0	644	104	
17-Sep	0	0	0	3	5	0	632	649	616	59	59	59	0	616	104	
18-Sep	6	138	0	25	470	0	610	636	601	58	59	55	8,232	166	99	
19-Sep	24	104	0	108	402	7	606	624	595	57	59	56	34,842	222	94	
20-Sep	14	93	0	76	366	13	584	595	577	56	57	55	20,807	219	91	
21-Sep	0	0	0	23	27	20	575	578	571	56	56	56	0	551	98	
22-Sep	0	0	0	18	20	16	567	571	565	56	56	56	0	549	102	
23-Sep	0	0	0	15	16	13	562	565	558	56	56	56	0	544	107	
24-Sep	0	0	0	12	13	11	555	558	552	56	56	56	0	540	106	
25-Sep	0	0	0	10	11	10	550	552	547	56	56	56	0	537	106	
26-Sep	0	0	0	9	10	8	545	547	542	56	56	56	0	534	105	
27-Sep	0	0	0	7	8	7	539	542	538	56	56	56	0	531	104	
28-Sep	17	95	0	73	356	6	559	646	532	54	56	49	24,083	248	94	
29-Sep	19	93	0	92	352	23	610	623	585	51	53	49	26,969	233	82	
30-Sep	13	91	0	82	358	27	596	606	575	50	52	48	19,251	223	80	
Summary	86	276	0	292	793	0	782	1140	532	61	74	48	3,717,585	166	107	

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ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

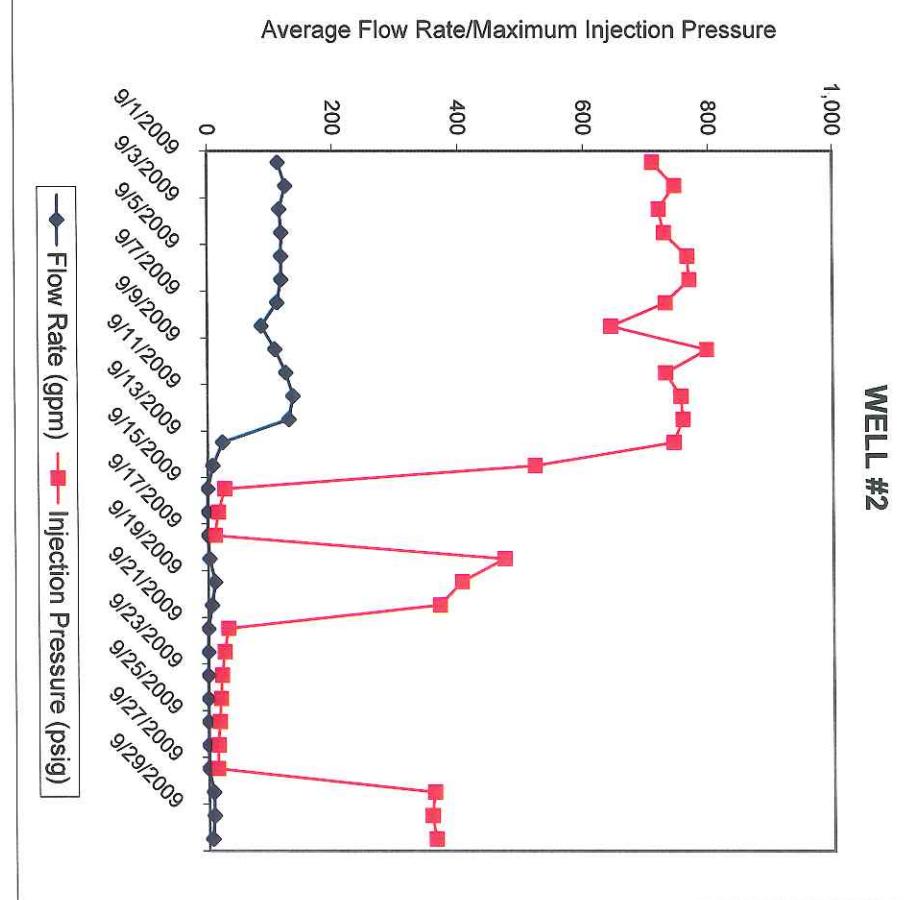
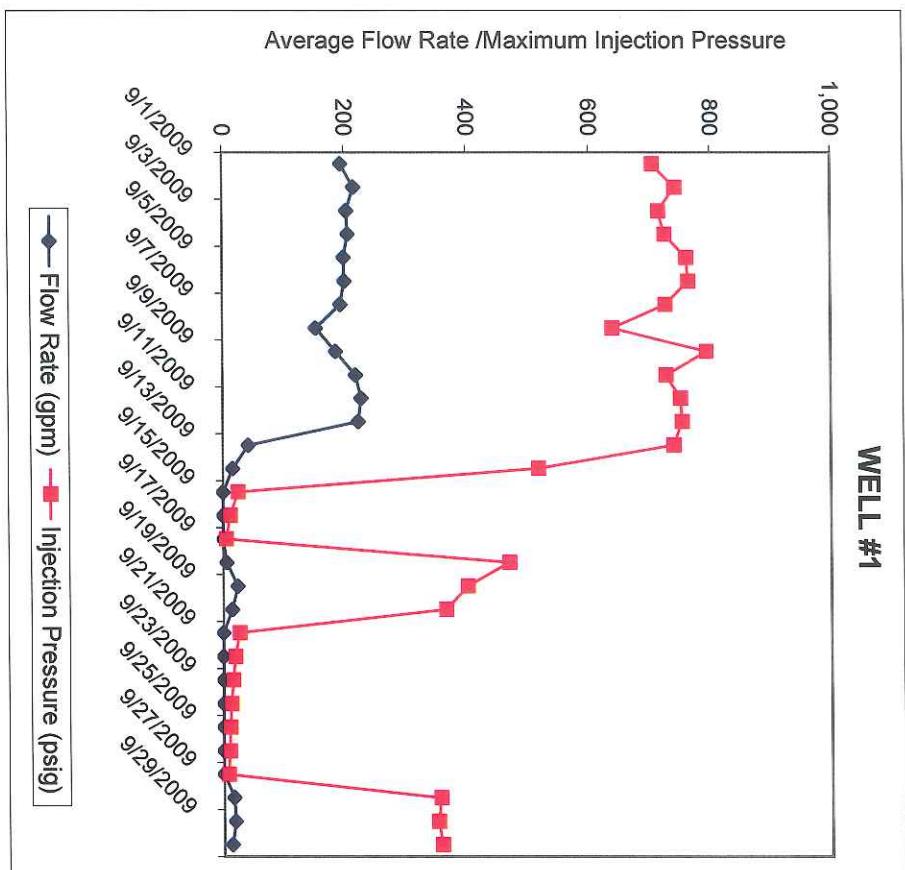
WELL #2
September, 2009

Date	Flow Rate (gpm)			Injection Pressure (psig)			Annulus Pressure (psig)			Annulus Level (%)			Total Flow Injected	Min. Tube/Annulus	Differential Pressure	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.					
1-Sep	114	162	0	602	711	57	1,005	1,050	909	62	64	57	164,767	241	114		
2-Sep	126	163	93	691	746	604	1,010	1,023	997	63	63	62	182,047	265	114		
3-Sep	117	131	91	695	721	637	1,026	1,068	999	63	65	62	167,816	298	115		
4-Sep	120	141	0	681	729	82	1,036	1,068	973	64	65	61	172,412	303	116		
5-Sep	119	180	0	640	766	84	1,007	1,064	892	62	65	56	171,894	212	113		
6-Sep	119	179	0	636	769	63	1,070	1,106	977	62	63	57	171,890	298	115		
7-Sep	112	143	0	632	731	69	1,087	1,111	1,023	62	64	60	161,943	344	116		
8-Sep	87	112	38	565	644	335	1,078	1,094	1,031	62	63	60	125,016	445	117		
9-Sep	109	174	0	641	797	471	1,105	1,192	1,064	64	67	62	157,043	331	119		
10-Sep	126	134	93	711	731	625	1,101	1,121	1,087	64	65	64	181,528	360	118		
11-Sep	138	143	127	746	755	726	1,113	1,122	1,102	65	65	65	198,038	353	119		
12-Sep	131	142	121	734	758	719	1,050	1,108	1,016	63	65	62	188,677	284	115		
13-Sep	24	142	0	177	744	22	918	1,060	835	56	63	51	34,615	315	112		
14-Sep	8	73	0	89	523	15	845	912	819	52	56	50	11,696	346	108		
15-Sep	0	0	0	21	27	17	801	822	788	49	50	48	0	770	102		
16-Sep	0	0	0	13	17	11	774	788	754	50	52	48	0	743	100		
17-Sep	0	0	0	9	11	7	737	754	722	52	52	52	0	715	100		
18-Sep	3	68	0	30	474	3	697	722	666	51	52	48	3,808	215	97		
19-Sep	11	50	0	113	406	13	664	679	650	50	52	49	16,026	273	94		
20-Sep	6	42	0	81	370	18	638	650	629	49	50	49	9,039	267	89		
21-Sep	0	0	0	28	32	26	623	629	616	49	49	49	0	590	94		
22-Sep	0	0	0	24	26	22	610	616	605	49	49	49	0	582	100		
23-Sep	0	0	0	21	22	20	599	605	593	49	49	49	0	573	103		
24-Sep	0	0	0	19	20	18	587	593	582	49	49	49	0	564	102		
25-Sep	0	0	0	17	18	16	577	582	572	49	50	49	0	556	102		
26-Sep	0	0	0	15	16	15	567	572	563	50	50	50	0	548	101		
27-Sep	0	0	0	14	15	13	558	563	555	50	50	50	0	542	101		
28-Sep	7	42	0	79	361	12	574	648	548	48	50	45	10,633	254	93		
29-Sep	9	42	0	97	357	29	616	623	593	46	48	45	12,611	236	78		
30-Sep	6	42	0	88	363	33	598	604	584	46	47	44	8,980	226	76		
Summary	50	180	0	297	797	3	822	1192	548	55	67	44	2,150,481	212	105		

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ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
September, 2009

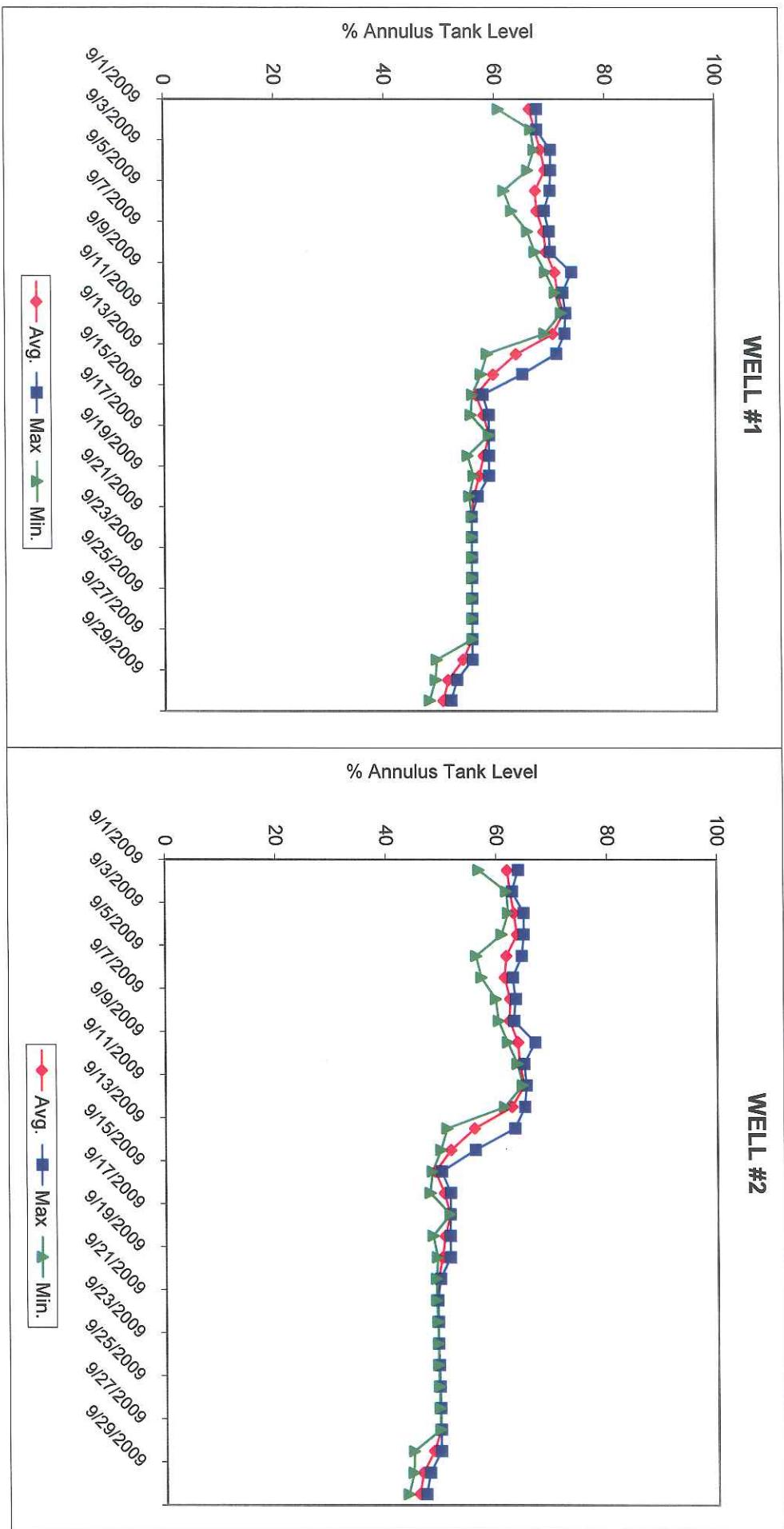


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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
September, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
September, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1
Aug-2009	0	-1
Sep-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0
Aug-2009	0	0
Sep-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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February 16, 2009

Ms. Lisa R. Perenchio, Chief
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

Dear Ms. Perenchio:

The following Monthly Report for January 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,428,286,695	Gallons
Well #2	1,424,965,106	Gallons

Volume injected year-to-date

Well #1	9,320,599	Gallons
Well #2	3,351,099	Gallons

Volume injected this month

Well #1	9,320,599	Gallons
Well #2	3,351,099	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

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Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

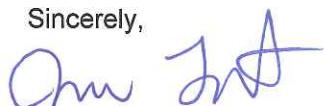
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

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FEB 24 2009

UIC BRANCH
EPA REGION 5

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(219) 287-3397, (219) 287-2427 fax

**WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY**

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FEB 24 2009
UIC BRANCH
EPA REGION 5

Client:

Criterion Catalyst
1800 East US HWY 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

WEEK ENDING	UNITS	1/4/2009	1/11/2009	1/18/2009	1/25/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.95	7.25	6.81	6.85	6.97	150.1
Specific Gravity	g/mL	1.018	1.033	1.042	1.043	1.034	ASTM
Total Dissolved Solids	mg/L	19,850	40,100	44,400	45,800	37,538	160.1
Total Suspended Solids	mg/L	1.6	2.0	2.0	2.2	2.07	160.2
Sodium Oxide (Na2O)	mg/L	6,143	16,605	17,415	15,525	13,922	200.7
Aluminum Oxide (Al2O3)	mg/L	0.52	0.44	0.46	0.49	0.48	200.7
Silica (SiO2)	mg/L	0.26	0.32	0.24	0.29	0.28	200.7
Sulfate (SO4)	mg/L	13,253	33,623	38,282	39,604	31,191	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. EPA Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by: *Frank Pierrat*
Date: 2/9/09

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ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1
January, 2009

**UIC BRANCH
EPA REGION 5**

FEB 24 2009

Date	Avg.	Flow Rate (gpm) Max	Min.	Injection Pressure (psig) Avg.	Max	Annulus Pressure (psig) Avg.	Max	Annulus Level (%) Max	Min.	Total Flow Injected	Min. Tubel/Annulus Differential Pressure	Temp.	Note		
1-Jan	0	0	0	2	2	1	610	612	609	53	53	53	0	607	83
2-Jan	0	0	0	0	1	0	608	609	605	53	53	53	0	605	87
3-Jan	0	0	0	0	0	0	603	605	602	53	53	53	0	602	85
4-Jan	0	0	0	0	0	0	602	603	599	53	53	53	0	599	88
5-Jan	51	215	0	120	363	0	588	788	562	51	53	46	73,761	233	80
6-Jan	214	282	0	379	503	15	894	1,012	788	55	62	46	307,713	424	96
7-Jan	286	336	191	517	567	408	1,001	1,077	953	65	67	62	411,643	421	112
8-Jan	302	332	0	554	591	81	985	997	955	67	68	66	434,454	377	113
9-Jan	300	324	197	570	599	441	993	1,014	952	68	69	67	432,678	382	115
10-Jan	294	323	0	570	623	183	979	1,001	956	68	69	67	424,048	341	114
11-Jan	279	324	203	564	616	452	963	994	937	68	70	67	402,160	336	113
12-Jan	281	324	228	587	640	518	953	973	912	68	69	67	405,342	319	113
13-Jan	216	308	0	465	602	36	869	925	821	64	67	61	311,474	249	107
14-Jan	268	305	193	570	621	464	894	924	871	67	69	65	385,940	267	111
15-Jan	279	304	66	589	621	277	905	932	885	68	70	67	402,267	276	113
16-Jan	220	294	0	496	614	64	830	890	796	65	68	63	316,325	218	107
17-Jan	230	241	193	523	541	473	800	817	779	63	64	62	331,531	254	104
18-Jan	231	246	220	532	546	518	802	809	796	63	64	63	332,452	256	105
19-Jan	232	258	191	533	572	476	797	809	770	63	64	61	334,029	202	104
20-Jan	262	314	0	572	644	62	858	899	779	67	69	61	377,717	209	111
21-Jan	232	316	0	539	647	66	832	892	735	65	69	62	334,546	185	108
22-Jan	274	315	129	601	656	379	944	973	884	66	67	62	394,891	295	112
23-Jan	275	316	234	609	660	548	969	974	963	68	68	67	395,395	312	114
24-Jan	269	292	57	609	642	270	952	963	925	67	68	66	387,677	310	114
25-Jan	266	286	234	614	643	576	911	944	860	65	68	63	382,603	254	112
26-Jan	159	309	0	386	681	36	876	954	756	64	68	57	229,628	255	110
27-Jan	188	251	0	494	590	99	811	884	714	57	59	53	270,894	196	100
28-Jan	154	296	0	380	586	73	858	974	747	53	56	47	221,662	203	96
29-Jan	256	298	186	587	661	481	1,007	1,038	974	57	59	55	368,809	370	106
30-Jan	237	296	184	584	657	510	1,004	1,032	980	58	59	57	340,723	324	106
31-Jan	215	289	0	566	649	120	977	989	925	57	57	54	310,236	339	105
Summary	209	336	0	455	681	0	860	1077	562	62	70	46	9,320,599	185	105

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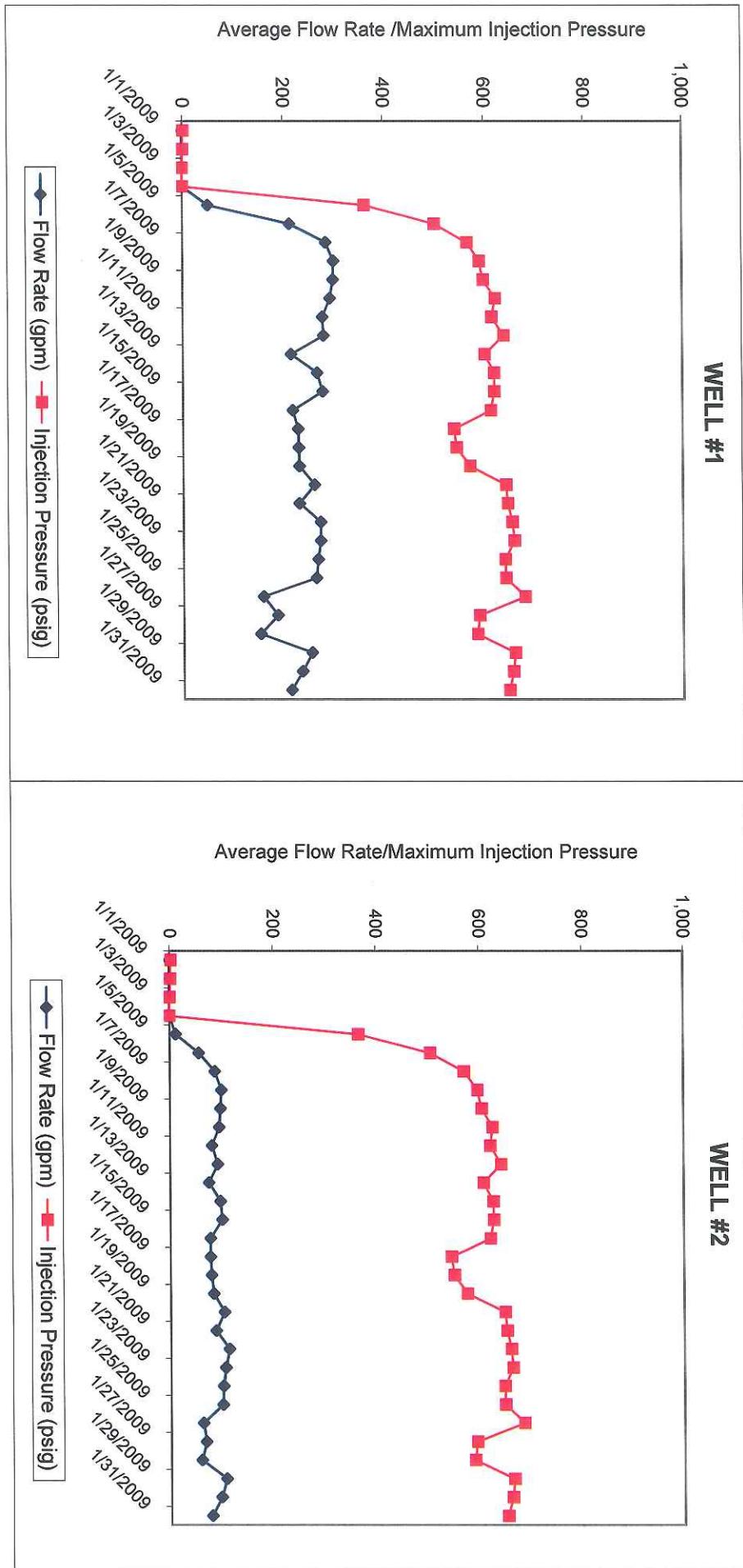
ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
January, 2009

UIC BRANCH
EPA REGION 5

FEB 24 2009

Date	Flow Rate (gpm) Avg.	Flow Rate (gpm) Max	Flow Rate (gpm) Min.	Injection Pressure (psig) Avg.	Injection Pressure (psig) Max	Injection Pressure (psig) Min.	Annulus Pressure (psig) Avg.	Annulus Pressure (psig) Max	Annulus Pressure (psig) Min.	Annulus Level (%) Avg.	Annulus Level (%) Max	Annulus Level (%) Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Jan	0	0	0	3	3	2	715	717	714	52	52	52	0	711	72	
2-Jan	0	0	0	2	2	1	715	715	714	52	52	52	0	712	76	
3-Jan	0	0	0	1	1	0	714	715	714	52	52	52	0	713	75	
4-Jan	0	0	0	0	0	0	715	716	715	52	52	52	0	715	79	
5-Jan	12	54	0	122	367	0	709	900	685	50	52	45	17,609	352	75	
6-Jan	56	85	0	383	507	18	991	1,113	887	52	59	45	81,163	519	95	
7-Jan	88	142	50	521	572	412	1,061	1,178	989	63	66	59	126,609	435	111	
8-Jan	101	134	0	559	597	84	1,032	1,044	1,001	65	66	64	144,811	424	112	
9-Jan	99	114	50	576	606	445	1,044	1,063	1,003	67	67	65	142,466	427	114	
10-Jan	96	111	0	575	627	186	1,032	1,053	1,003	66	67	65	138,347	397	113	
11-Jan	82	112	19	570	622	457	1,021	1,052	998	66	67	65	117,838	394	112	
12-Jan	93	124	63	593	643	523	1,020	1,041	979	66	67	65	134,184	384	112	
13-Jan	76	123	0	471	609	41	941	987	894	63	65	61	109,334	314	106	
14-Jan	98	124	57	576	628	470	972	1,008	950	65	67	64	141,708	342	110	
15-Jan	102	123	0	597	629	282	993	1,023	969	66	68	65	146,897	362	111	
16-Jan	79	114	0	502	622	71	921	985	887	64	66	62	113,276	297	106	
17-Jan	78	85	60	529	547	479	890	906	876	62	63	61	112,599	340	103	
18-Jan	80	89	73	538	552	523	899	907	887	62	62	62	115,779	350	104	
19-Jan	84	100	60	538	577	480	901	911	877	62	63	61	121,522	301	103	
20-Jan	105	147	0	578	650	66	969	1,015	883	65	67	61	151,871	306	110	
21-Jan	89	142	0	545	654	72	944	1,013	912	64	67	63	128,450	342	107	
22-Jan	115	148	0	606	662	387	984	1,021	919	66	68	63	165,055	323	111	
23-Jan	108	139	80	614	665	553	1,017	1,023	1,009	67	68	67	154,877	356	113	
24-Jan	103	124	0	616	649	275	1,009	1,019	992	67	68	67	148,464	363	113	
25-Jan	102	123	83	621	650	583	973	1,008	922	66	68	64	146,969	310	111	
26-Jan	63	135	0	393	687	41	945	1,022	827	65	69	59	90,963	322	109	
27-Jan	69	104	0	499	595	104	840	885	787	60	62	57	99,326	253	99	
28-Jan	60	131	0	385	591	77	864	974	771	57	60	52	86,618	217	95	
29-Jan	109	163	63	593	667	486	1,011	1,046	974	60	62	58	156,275	372	105	
30-Jan	99	142	66	589	664	515	1,017	1,040	998	61	62	60	141,967	336	105	
31-Jan	81	134	0	571	655	124	993	1,006	949	60	61	58	116,123	349	103	
Summary	75	163	0	460	687	0	931	1178	685	62	69	45	3,351,099	217	102	

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
January, 2009

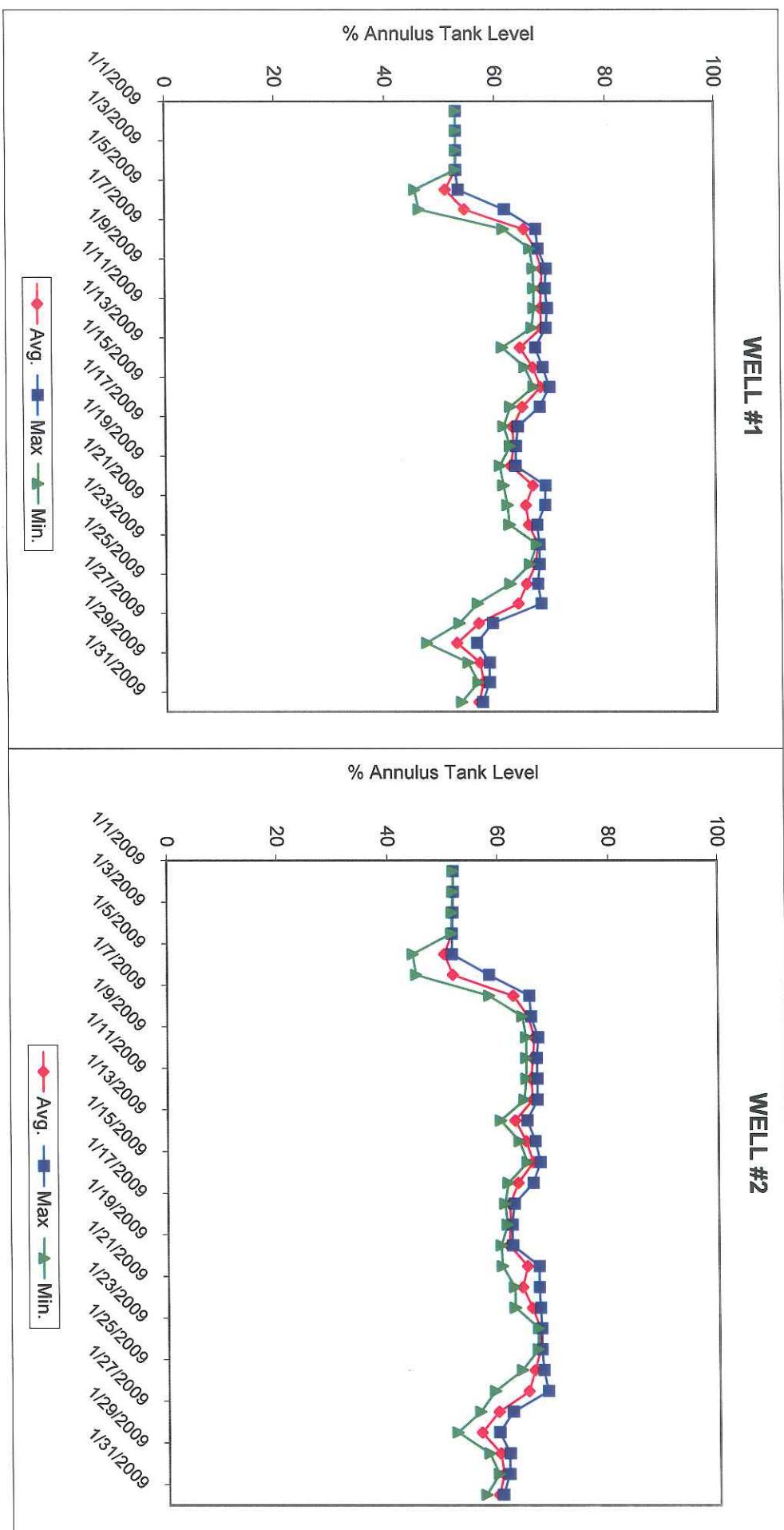


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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
January, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
January, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Jan-2008	0	0
Feb-2008	0	0
Mar-2008	0	0
Apr-2008	0	0
May-2008	12	12
Jun-2008	0	12
Jul-2008	0	12
Aug-2008	0	12
Sep-2008	0	12
Oct-2008	0	12
Nov-2008	0	12
Dec-2008	0	12
Jan-2009	0	12

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Jan-2008	0	0
Feb-2008	0	0
Mar-2008	0	0
Apr-2008	0	0
May-2008	20	20
Jun-2008	0	20
Jul-2008	0	20
Aug-2008	0	20
Sep-2008	0	20
Oct-2008	0	20
Nov-2008	0	20
Dec-2008	0	20
Jan-2009	0	20

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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EPA REGION 5

✓
Wet

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6426
RETURN RECEIPT REQUESTED



March 17, 2009

Ms. Lisa R. Perenchio, Chief
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-11-0001 and IN-091-11-0002

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MAR 23 2009

UIC BRANCH
EPA REGION 5

Dear Ms. Perenchio:

The following Monthly Report for February 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,436,993,958	Gallons
Well #2	1,428,944,141	Gallons

Volume injected year-to-date

Well #1	18,027,862	Gallons
Well #2	7,330,135	Gallons

Volume injected this month

Well #1	8,707,263	Gallons
Well #2	3,979,036	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

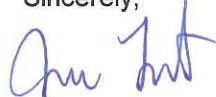
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

- 1) On 2/26/09 at 13:12 the high injection pressure alarm shutdown was successfully tested per the approved plan.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(219) 287-3397, (219) 287-2427 fax

WEEKLY DEEPPWELL ANALYSIS
MONTH-END SUMMARY

Client:

Criterion Catalyst
1800 East US HWY 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

WEEK ENDING	UNITS	2/2/2009	2/9/2009	2/16/2009	2/23/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.75	7.09	6.68	6.75	6.82	150.1
Specific Gravity	g/mL	1.021	1.013	1.014	1.030	1.020	ASTM
Total Dissolved Solids	mg/L	30,014	13,920	16,444	31,262	22,910	160.1
Total Suspended Solids	mg/L	1.2	0.8	0.8	1.2	0.93	160.2
Sodium Oxide (Na2O)	mg/L	8,262	4,158	6,980	9,908	7,327	200.7
Aluminum Oxide (Al2O3)	mg/L	0.50	0.05	0.06	0.05	0.17	200.7
Silica (SiO2)	mg/L	3.79	2.99	2.53	0.67	2.50	200.7
Sulfate (SO4)	mg/L	23,872	7,808	11,300	23,722	16,676	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Markie Clark
Approved by: *Markie Clark*
Date: 3-10-09

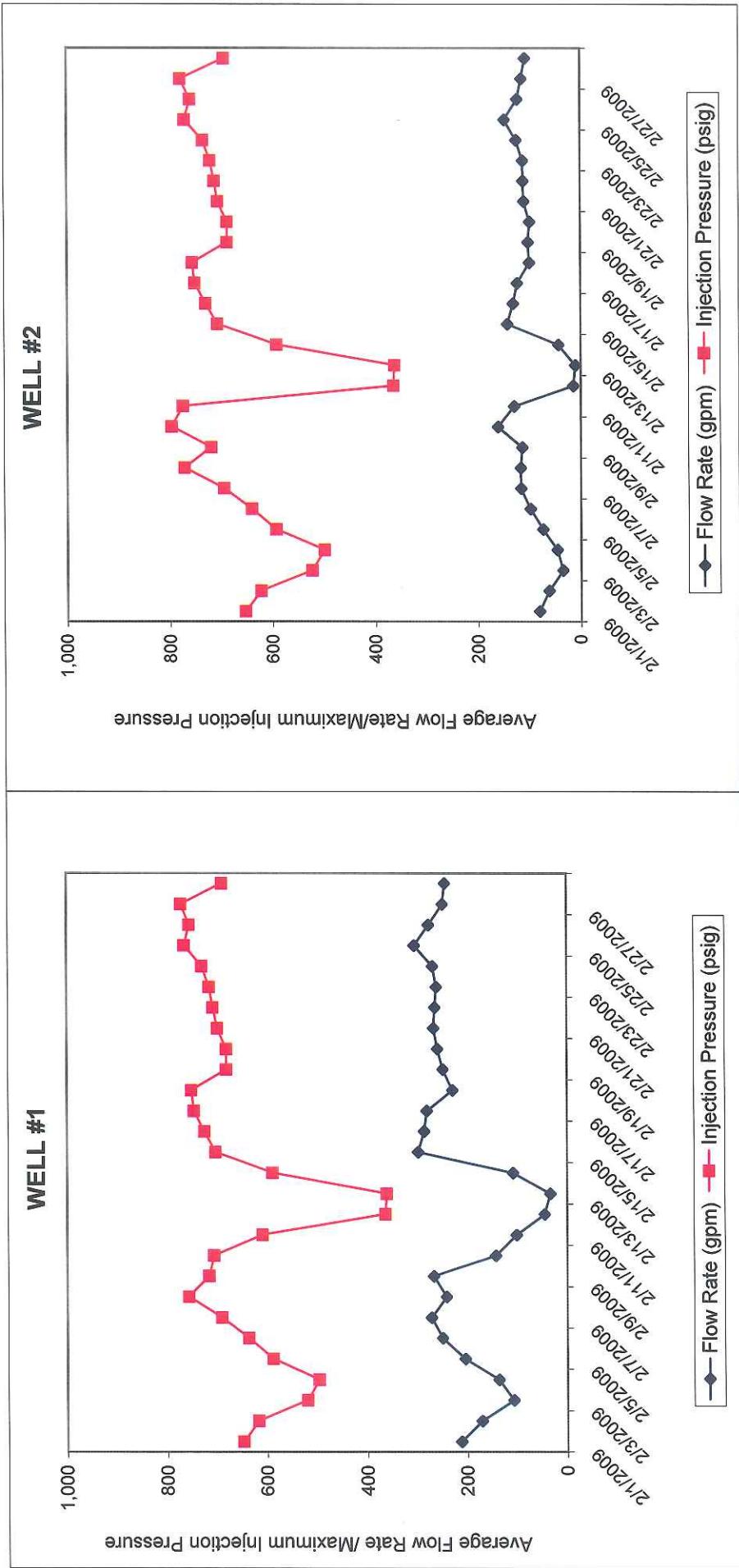
ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #1
February, 2009

Date	Flow Rate (gpm)	Injection Pressure (psig)	Annulus Pressure (psig)	Annulus Level (%)	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	
1-Feb	213	296	0	553	648	109	982	1,000
2-Feb	172	252	0	472	618	77	950	1,004
3-Feb	108	194	0	335	520	70	871	934
4-Feb	138	192	0	387	497	72	852	874
5-Feb	205	293	0	500	588	85	886	920
6-Feb	250	296	191	585	637	504	935	983
7-Feb	273	282	66	664	691	314	993	1,003
8-Feb	242	307	0	566	757	0	962	1,033
9-Feb	268	303	187	684	716	576	1,033	1,043
10-Feb	144	600	0	235	706	0	928	1,035
11-Feb	102	224	0	139	609	0	831	873
12-Feb	46	97	0	212	364	69	851	899
13-Feb	34	99	0	166	361	61	808	855
14-Feb	109	272	0	335	588	60	799	853
15-Feb	298	324	120	647	703	395	986	1,028
16-Feb	287	326	0	662	725	99	997	1,025
17-Feb	281	338	0	653	746	84	1,008	1,034
18-Feb	229	339	0	564	751	75	927	996
19-Feb	249	290	0	614	681	98	940	998
20-Feb	260	290	219	648	681	592	955	981
21-Feb	268	303	123	663	699	428	962	969
22-Feb	265	299	104	668	708	397	958	1,013
23-Feb	262	298	38	673	715	278	1,012	1,032
24-Feb	269	317	0	676	730	90	1,022	1,046
25-Feb	305	323	91	744	765	375	1,037	1,071
26-Feb	277	307	0	714	755	146	1,012	1,029
27-Feb	249	322	0	636	771	95	969	1,013
28-Feb	244	291	0	615	689	84	1,007	1,046
Summary	216	600	0	536	771	0	945	1,071
							675	58
							66	47
							8,707,263	186
								109

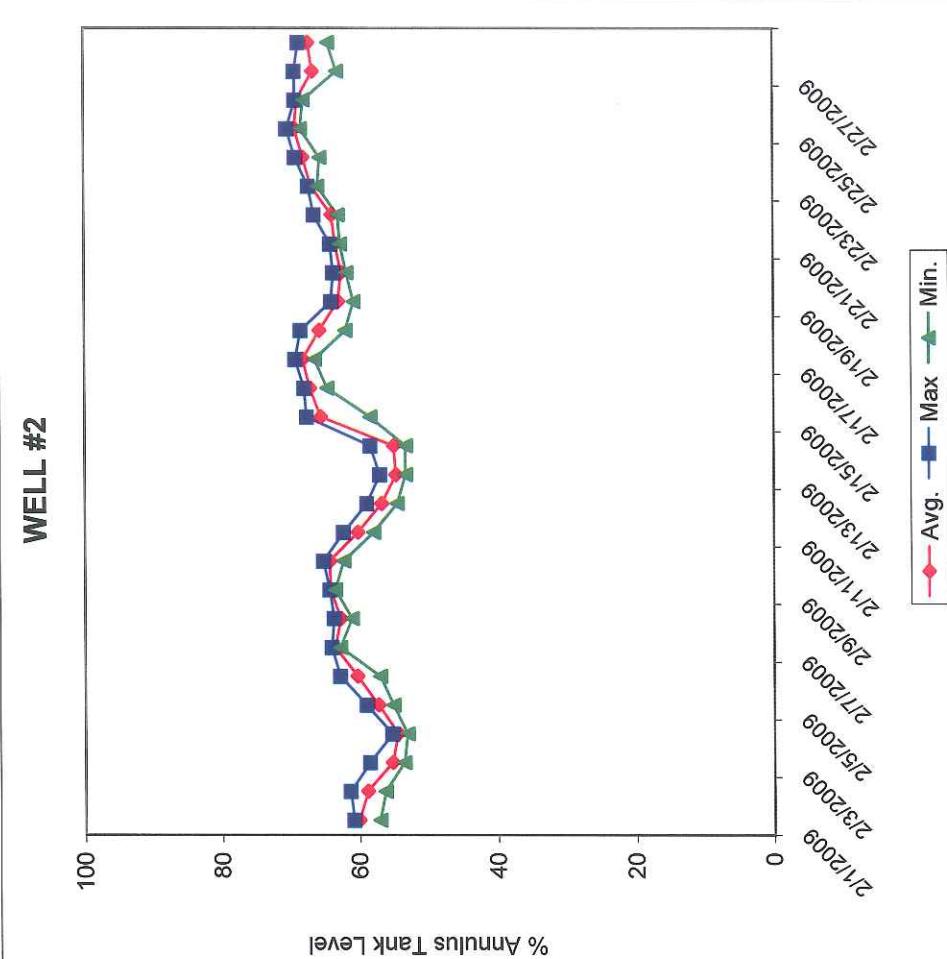
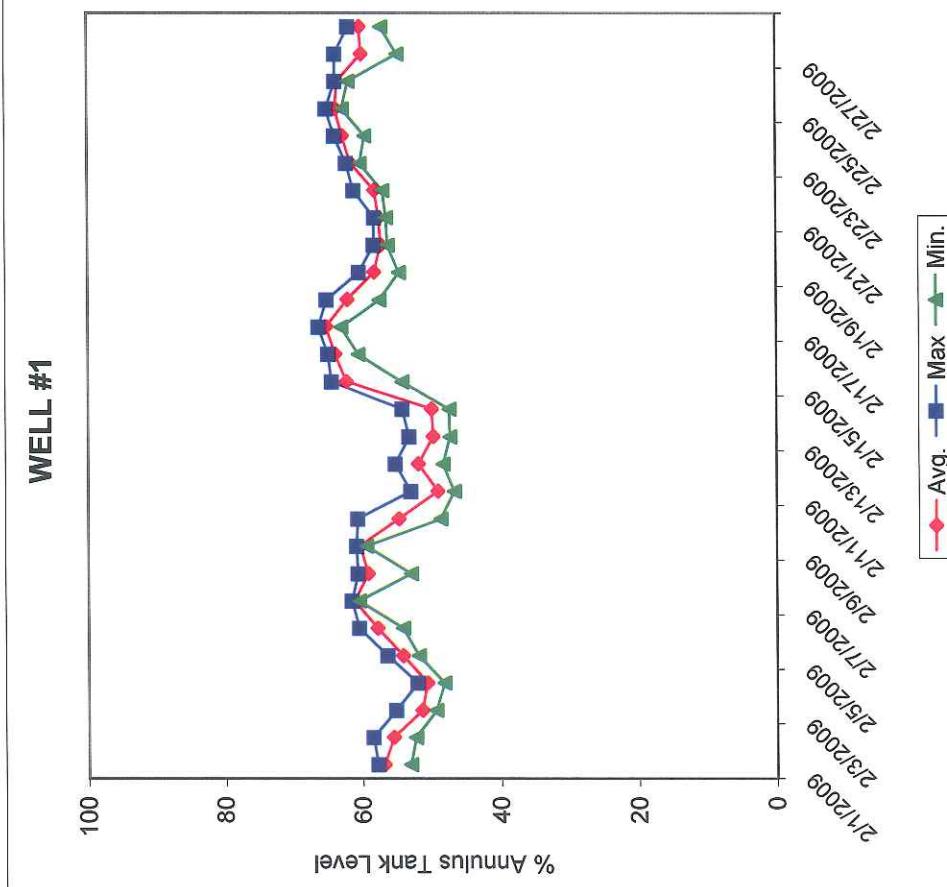
ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
February, 2009

Date	Flow Rate (gpm) Avg.	Flow Rate (gpm) Max.	Injection Pressure (psig) Avg.	Injection Pressure (psig) Max.	Annulus Pressure (psig) Avg.	Annulus Pressure (psig) Max.	Annulus Level (%) Avg.	Annulus Level (%) Max.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note			
1-Feb	81	139	0	558	654	1113	1,001	1,018	941	60	61	57	117,205	353	104
2-Feb	63	104	0	477	623	82	977	1,030	928	59	61	56	90,292	385	103
3-Feb	35	73	0	339	524	74	907	968	877	55	59	54	50,246	376	95
4-Feb	46	71	0	391	500	76	892	906	872	54	55	53	66,506	380	94
5-Feb	75	134	0	504	593	90	935	966	903	57	59	55	107,325	334	99
6-Feb	99	131	60	589	641	508	994	1,049	930	60	63	57	142,579	369	105
7-Feb	117	134	0	668	695	315	1,065	1,077	1,049	64	64	63	168,527	360	110
8-Feb	118	257	0	649	772	88	1,044	1,065	1,005	63	64	61	169,34	275	108
9-Feb	114	143	63	687	720	581	1,068	1,078	1,046	64	64	64	164,869	355	111
10-Feb	162	247	0	721	797	109	1,063	1,087	1,013	64	65	62	233,110	238	110
11-Feb	131	203	0	600	775	64	973	1,013	926	60	62	58	187,956	224	102
12-Feb	14	33	0	214	365	70	905	945	869	57	59	55	20,388	543	101
13-Feb	10	33	0	168	363	63	870	907	848	55	57	53	14,616	520	97
14-Feb	43	133	0	337	591	62	873	931	846	55	58	53	62,302	334	95
15-Feb	143	165	0	651	707	394	1,080	1,129	931	66	68	58	205,872	340	114
16-Feb	132	166	0	665	730	101	1,096	1,128	1,026	67	68	65	189,579	369	115
17-Feb	124	173	0	657	751	86	1,107	1,135	1,049	68	69	66	178,232	353	117
18-Feb	100	168	0	568	756	76	1,030	1,103	944	66	69	62	144,004	307	112
19-Feb	103	127	0	619	688	101	994	1,030	952	63	64	61	147,690	298	107
20-Feb	99	124	78	653	688	597	994	1,019	977	63	64	62	142,989	317	107
21-Feb	110	144	0	669	706	438	1,010	1,025	995	63	64	63	158,993	319	108
22-Feb	112	147	0	674	713	397	1,017	1,081	997	64	66	63	161,396	315	109
23-Feb	113	144	0	678	721	282	1,083	1,100	1,059	67	67	66	162,316	366	115
24-Feb	125	165	0	682	735	95	1,101	1,131	1,031	68	69	66	180,263	353	116
25-Feb	148	168	0	750	771	386	1,121	1,154	1,099	69	70	68	213,651	340	118
26-Feb	123	149	0	721	760	363	1,097	1,111	1,066	69	69	68	177,644	247	117
27-Feb	115	165	0	642	779	100	1,028	1,103	943	67	69	63	165,474	259	112
28-Feb	108	135	0	621	694	88	1,032	1,070	969	67	69	64	155,639	292	114
Summary	99	257	0	577	797	62	1013	1154	846	63	70	53	3,979,036	224	108

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
February, 2009



ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
February, 2009



Notes:

Daily Well #1

Total	0

Daily Well #2

Total	0

WELL #1

Feb-2009	0	12
Jan-2009	0	12
Dec-2008	0	12
Nov-2008	0	12
Oct-2008	0	12
Sep-2008	0	12
Aug-2008	0	12
Jul-2008	0	12
Jun-2008	0	12
May-2008	12	12
Apr-2008	0	0
Mar-2008	0	0
Feb-2008	0	0
Jan-2008	0	20
Dec-2008	0	20
Nov-2008	0	20
Oct-2008	0	20
Sep-2008	0	20
Aug-2008	0	20
Jul-2008	0	20
Jun-2008	0	20
May-2008	20	20
Apr-2008	0	0
Mar-2008	0	0
Feb-2008	0	0
Jan-2008	0	0

WELL #2

Date	Monthly Cumulative	Cumulative	13 Month Cumulative
Feb-2008	0	0	0
Mar-2008	0	0	0
Apr-2008	0	0	0
May-2008	12	12	12
Jun-2008	0	12	20
Jul-2008	0	20	20
Aug-2008	0	20	20
Sep-2008	0	12	20
Oct-2008	0	12	20
Nov-2008	0	12	20
Dec-2008	0	12	20
Jan-2009	0	12	20
Feb-2009	0	12	20

February, 2009

ANNUAL SYSTEM WATER ADDITIONS AND SUBTRACTIONS (in Gallons)
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)

ATTACHMENT VI

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6778
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April 17, 2009

Ms. Lisa R. Perenchio, Chief
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

Dear Ms. Perenchio:

The following Monthly Report for March 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,447,230,773	Gallons
Well #2	1,433,887,944	Gallons

Volume injected year-to-date

Well #1	28,264,676	Gallons
Well #2	12,273,937	Gallons

Volume injected this month

Well #1	10,236,815	Gallons
Well #2	4,943,802	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

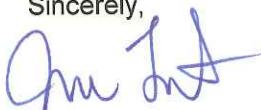
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

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APR 29 2009

UIC BRANCH
EPA REGION 5

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

APR 11 2009

WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

Client:

Criterion Catalyst
1800 East US Hwy 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

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APR 11 2009

JJC BRANCH
EPA REGION 5

WEEK ENDING	UNITS	3/9/2009 (2-week composite)	3/16/2009	3/23/2009	3/30/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	7.22	7.27	7.25	7.22	7.24	150.1
Specific Gravity	g/mL	1.039	1.060	1.047	1.044	1.045	ASTM
Total Dissolved Solids	mg/L	47,270	55,000	52,342	48,846	50,865	160.1
Total Suspended Solids	mg/L	1.6	2.4	2.4	1.8	2.1	160.2
Sodium Oxide (Na2O)	mg/L	18,090	20,520	18,360	19,575	19,136	200.7
Aluminum Oxide (Al2O3)	mg/L	0.25	0.25	0.22	0.22	0.24	200.7
Silica (SiO2)	mg/L	0.35	0.18	0.21	0.23	0.24	200.7
Sulfate (SO4)	mg/L	38,121	44,523	45,796	40,602	42,261	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by *Mike O'Neill* Date: 4/10/09

ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #1
March, 2009

Date	Flow Rate (gpm) Avg.	Max	Min	Injection Pressure (psig) Avg.	Max	Min.	Annulus Pressure (psig) Avg.	Max	Min.	Annulus Level (%) Avg.	Max	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Mar	263	288	95	654	698	334	1,021	1,032	988	62	63	61	378,179		307	117
2-Mar	214	276	0	560	684	41	957	1,001	865	60	62	55	308,029		262	114
3-Mar	248	278	224	642	676	606	981	1,005	939	62	63	60	356,478		307	116
4-Mar	237	275	0	627	698	77	941	1,007	870	61	64	57	340,813		199	114
5-Mar	275	293	0	668	696	95	1,007	1,018	962	64	64	62	395,900		310	119
6-Mar	277	293	253	683	706	651	1,006	1,015	985	64	64	63	399,401		304	119
7-Mar	271	293	0	679	711	139	982	1,002	939	63	64	62	389,928		257	118
8-Mar	261	301	168	679	713	537	951	972	886	63	63	60	375,401		238	117
9-Mar	238	266	225	640	686	615	970	1,006	905	61	62	60	342,988		265	117
10-Mar	233	276	27	630	704	218	973	989	953	60	61	59	334,907		275	116
11-Mar	270	290	60	682	710	310	982	1,016	962	59	60	57	389,210		269	114
12-Mar	270	288	0	675	706	97	986	1,005	935	60	61	57	389,118		271	116
13-Mar	246	295	0	645	702	102	974	1,005	911	60	62	57	354,927		259	116
14-Mar	207	294	0	556	704	53	955	997	861	60	62	55	298,740		291	116
15-Mar	54	244	0	179	623	27	794	885	747	50	57	47	77,915		179	103
16-Mar	238	268	0	603	668	87	1,019	1,072	841	56	59	46	342,198		262	114
17-Mar	228	262	194	624	669	557	1,064	1,095	1,026	59	61	58	328,928		403	118
18-Mar	255	284	0	521	720	21	1,013	1,104	880	57	61	51	367,122		243	117
19-Mar	183	316	0	485	715	36	984	1,034	893	56	59	51	263,877		245	115
20-Mar	252	293	38	633	671	234	1,038	1,074	985	57	59	54	363,408		318	116
21-Mar	257	268	229	661	689	611	1,085	1,103	1,060	59	61	59	370,584		374	120
22-Mar	236	264	197	653	696	582	1,025	1,060	962	60	61	57	339,353		286	118
23-Mar	259	268	250	708	728	691	1,020	1,051	943	60	61	56	372,858		224	118
24-Mar	197	271	0	587	720	77	952	1,020	885	56	60	53	283,333		224	114
25-Mar	192	257	0	576	676	73	910	933	874	54	56	53	275,953		241	111
26-Mar	194	283	168	591	683	540	938	1,001	883	54	56	53	278,942		281	112
27-Mar	201	269	0	571	680	45	975	1,008	895	55	57	52	288,760		260	114
28-Mar	204	229	168	600	642	527	945	958	918	55	56	53	294,158		307	113
29-Mar	207	233	193	614	658	586	935	963	915	55	57	54	297,908		270	114
30-Mar	205	235	0	596	655	74	954	1,011	907	54	56	51	295,059		274	114
31-Mar	238	260	179	657	687	559	1,013	1,028	984	57	56	56	342,442		314	118
Summary	229	316	0	609	728	21	979	1104	747	59	64	46	10,236,815		179	115

RECEIVED

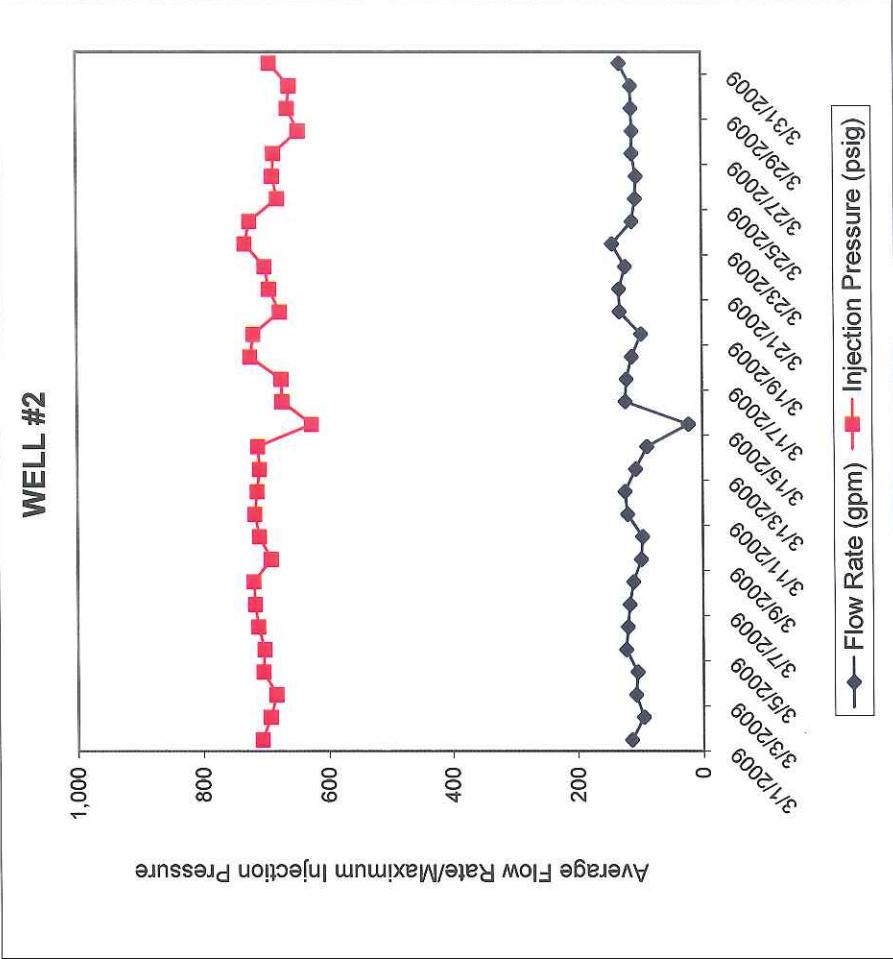
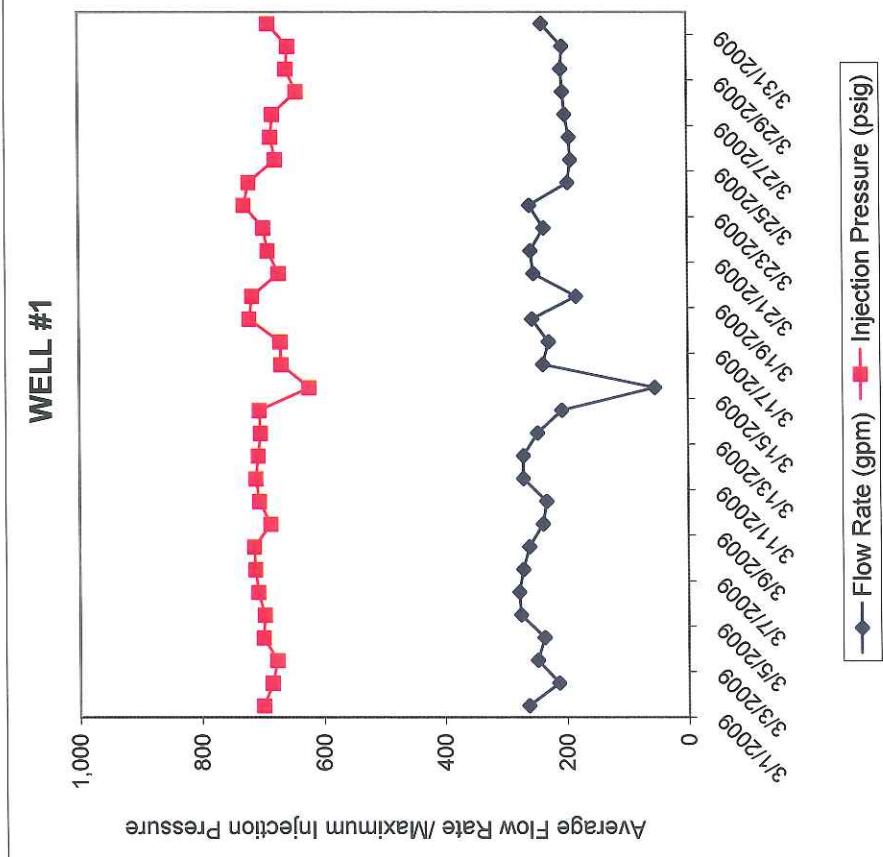
APR 29 2009

ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
March, 2009

Date	Flow Rate (gpm) Avg.	Max	Min	Injection Pressure (psig) Avg.	Max	Min.	Annulus Pressure (psig) Avg.	Max	Min.	Annulus Level (%) Avg.	Max	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Mar	114	138	50	661	705	345	1,059	1,069	1,034	69	69	67	164,865	348	116	
2-Mar	95	133	0	566	692	47	1,005	1,050	916	67	69	63	137,264	304	113	
3-Mar	107	129	91	648	683	612	1,040	1,064	1,001	69	70	67	154,517	358	116	
4-Mar	105	133	0	632	703	81	1,008	1,076	941	67	70	65	150,834	260	113	
5-Mar	123	138	0	674	701	99	1,081	1,094	1,034	70	71	68	177,786	372	118	
6-Mar	120	134	102	688	711	656	1,084	1,092	1,065	70	71	70	172,878	375	118	
7-Mar	117	135	0	684	716	144	1,068	1,089	1,030	70	71	69	168,709	344	118	
8-Mar	111	163	63	684	718	537	1,045	1,066	985	70	70	67	159,830	325	116	
9-Mar	98	118	89	644	690	619	1,026	1,057	997	69	70	68	141,486	313	116	
10-Mar	96	130	0	634	709	223	1,012	1,020	992	69	69	68	138,799	310	115	
11-Mar	120	144	0	688	716	312	994	1,018	983	68	69	68	173,321	283	113	
12-Mar	124	141	0	681	712	102	1,012	1,037	964	69	70	67	178,920	290	115	
13-Mar	107	139	0	651	708	106	1,008	1,037	951	69	70	67	153,698	282	116	
14-Mar	88	135	0	561	711	57	996	1,041	904	69	71	65	127,247	324	115	
15-Mar	22	112	0	183	626	31	832	921	789	60	66	58	31,713	205	101	
16-Mar	123	144	0	607	672	91	1,046	1,107	872	66	69	58	177,549	278	113	
17-Mar	121	143	100	628	673	561	1,099	1,134	1,062	69	70	68	174,792	433	117	
18-Mar	112	164	0	522	723	20	1,054	1,148	915	67	71	62	161,681	286	116	
19-Mar	97	164	0	485	717	33	1,025	1,087	948	67	69	64	140,033	287	114	
20-Mar	132	152	0	636	675	234	1,045	1,084	994	68	70	66	189,833	325	115	
21-Mar	132	142	114	664	692	614	1,099	1,118	1,079	70	71	70	190,752	404	119	
22-Mar	123	144	99	655	699	585	1,073	1,106	1,009	70	71	68	176,684	326	118	
23-Mar	144	158	134	711	694	1,073	1,107	982	70	72	67	206,923	260	118		
24-Mar	111	158	0	590	723	79	995	1,064	933	68	70	65	160,347	260	113	
25-Mar	106	147	0	578	678	75	958	980	930	66	67	65	152,610	287	111	
26-Mar	104	184	89	593	686	543	961	1,010	936	66	68	65	150,275	300	111	
27-Mar	111	156	0	574	684	47	992	1,020	921	68	69	65	159,524	278	114	
28-Mar	110	127	89	603	645	530	973	989	943	67	68	66	159,070	333	112	
29-Mar	112	130	102	618	662	589	980	1,002	964	68	67	66	161,186	313	113	
30-Mar	112	131	0	600	659	75	981	1,022	922	68	69	65	161,910	318	114	
31-Mar	131	148	95	661	690	563	1,033	1,048	1,008	70	70	69	188,765	333	117	
Summary	111	184	0	613	731	20	1021	1148	789	68	72	58	4,943,802	205	115	

APR 24 2009

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
March, 2009

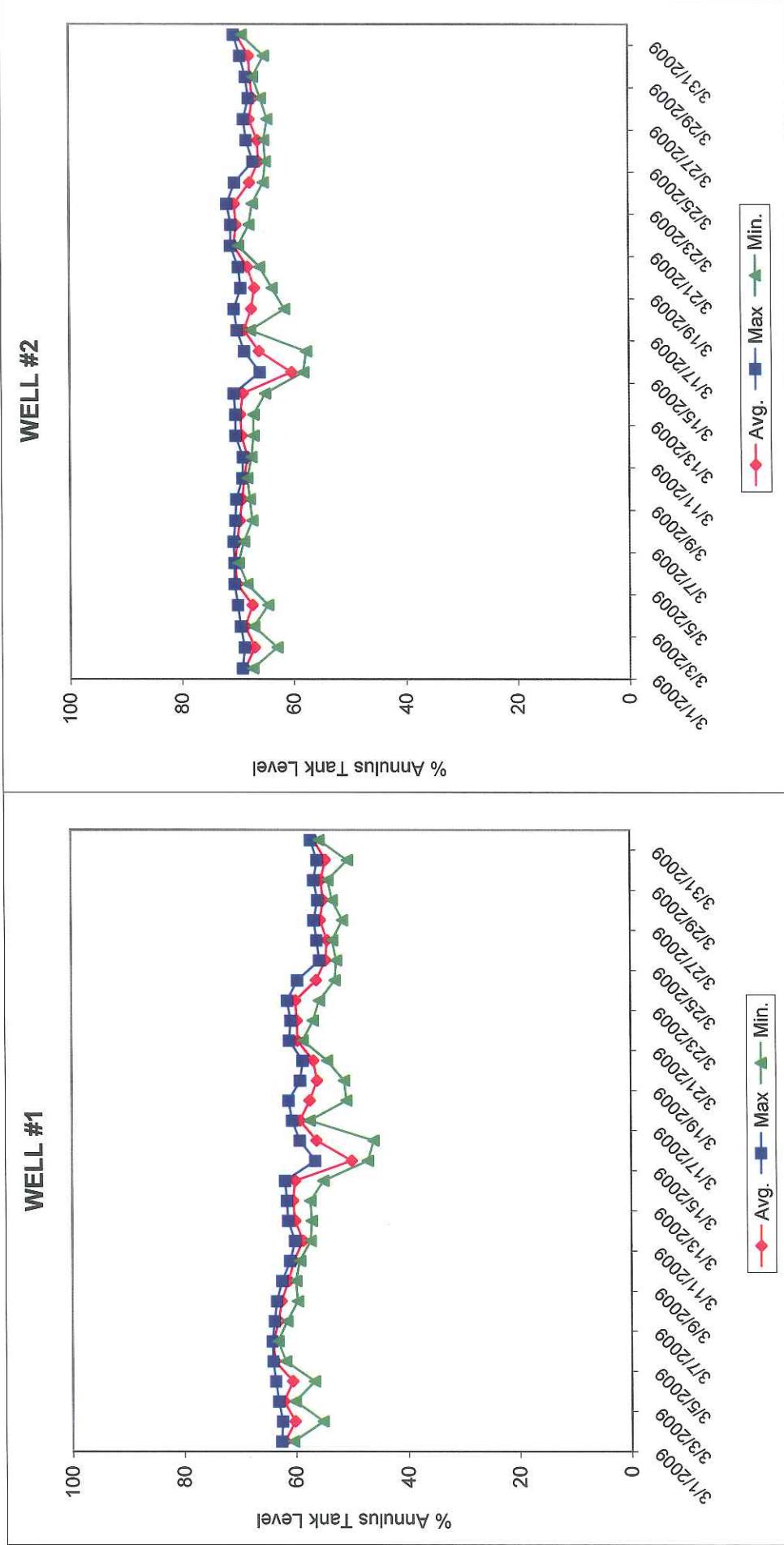


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APR 29 2009

UIC BRANCH
EPA REGION 5

ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
March, 2009



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UIC BRANCH
EPA REGION 5

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UIC BRANCH

APP E9 2009

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Notes:

		Total	0

Daily Well #2

		Total	0

Daily Well #1

Date	Monthly Cumulative	13 Month Cumulative	Well #2
Mar-2008	0	0	
Apr-2008	0	0	
May-2008	12	12	
Jun-2008	0	12	
Jul-2008	0	12	
Aug-2008	0	12	
Sep-2008	0	12	
Oct-2008	0	12	
Nov-2008	0	20	
Dec-2008	0	20	
Jan-2009	0	20	
Feb-2009	0	20	
Mar-2009	0	20	

Date	Monthly Cumulative	13 Month Cumulative	Well #1
Mar-2009	0	12	
Apr-2009	0	12	
May-2009	0	12	
Jun-2009	0	12	
Jul-2009	0	12	
Aug-2009	0	12	
Sep-2009	0	12	
Oct-2009	0	12	
Nov-2009	0	20	
Dec-2009	0	20	
Jan-2010	0	20	
Feb-2010	0	20	
Mar-2010	0	20	

March, 2009

DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (in Gallons)

ATTACHMENT VI

WKF

CERTIFIED MAIL NO.: 7004 2510 0001 2680 8161
RETURN RECEIPT REQUESTED



May 13, 2009

Ms. Lisa R. Perenchio, Chief
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

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MAY 22 2009

UIC BRANCH
EPA REGION 5

Dear Ms. Perenchio:

The following Monthly Report for April 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,456,396,225	Gallons
Well #2	1,439,093,835	Gallons

Volume injected year-to-date

Well #1	37,430,128	Gallons
Well #2	17,479,828	Gallons

Volume injected this month

Well #1	9,165,452	Gallons
Well #2	5,205,891	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

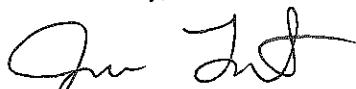
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

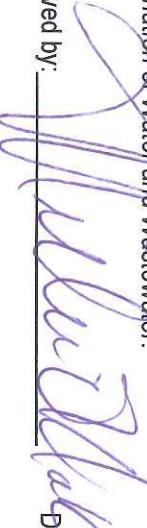
Client:
Criterion Catalyst
1800 East US Hwy 12
Michigan City, IN 46360

Attn:
Mr. Frank Pierrat

WEEK ENDING	UNITS	4/6/2009	4/13/2009	4/20/2009	4/27/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.87	7.09	7.10	7.07	7.03	150.1
Specific Gravity	g/mL	1.045	1.016	1.017	1.041	1.030	ASTM
Total Dissolved Solids	mg/L	45,668	4,568	15,684	16,350	44,630	20,308
Total Suspended Solids	mg/L	2.1	1.2	0.8	1.8	1.27	160.2
Sodium Oxide (Na2O)	mg/L	27,000	8,964	3,119	19,980	14,766	200.7
Aluminum Oxide (Al2O3)	mg/L	0.13	0.07	0.08	0.11	0.10	200.7
Silica (SiO2)	mg/L	0.17	3.47	2.72	0.50	1.72	200.7
Sulfate (SO4)	mg/L	38,889	9,559	8,503	34,698	22,912	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by: 
Date: 5/7/09

ATTACHMENT II

DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #1
April, 2009

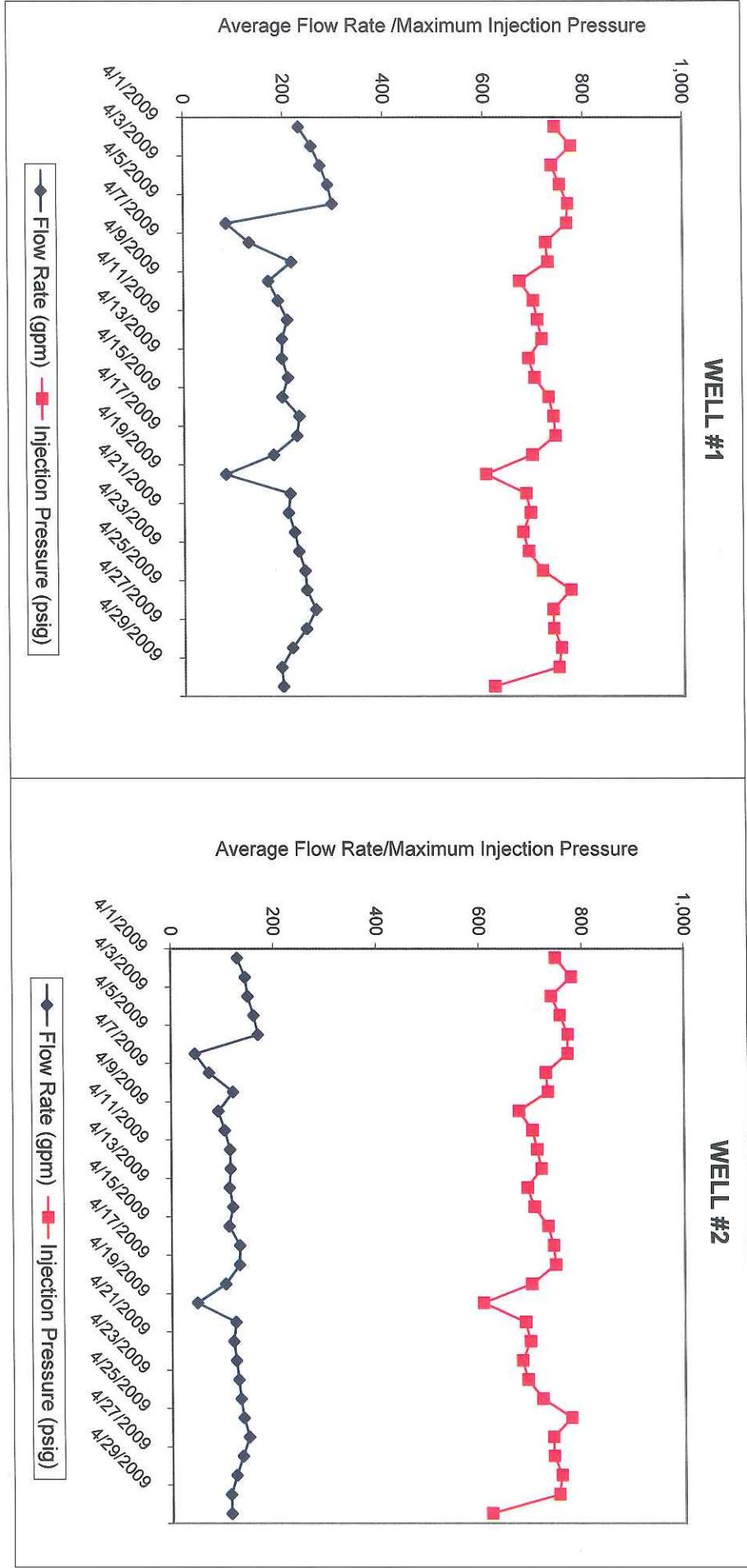
Date	Flow Rate (gpm) Avg.	Flow Rate (gpm) Max	Flow Rate (gpm) Min.	Injection Pressure (psig) Avg.	Injection Pressure (psig) Max	Annulus Pressure (psig) Avg.	Annulus Pressure (psig) Max	Annulus Level (%) Avg.	Annulus Level (%) Max	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Apr	233	298	0	628	743	91	986	1,054	885	54	58	50	334,957
2-Apr	257	312	0	664	776	64	1,007	1,070	892	55	58	50	370,254
3-Apr	275	300	33	701	736	267	986	997	943	56	57	54	395,869
4-Apr	290	304	100	727	752	342	1,000	1,004	968	58	58	56	417,883
5-Apr	299	304	295	763	769	752	988	1,001	968	58	58	58	430,988
6-Apr	86	301	0	286	767	36	889	1,023	766	51	58	44	124,313
7-Apr	133	302	0	410	724	28	803	953	743	45	50	43	191,181
8-Apr	217	271	0	643	728	115	959	998	893	50	52	47	313,099
9-Apr	171	228	60	557	672	336	924	958	884	50	51	48	246,290
10-Apr	190	258	0	601	699	107	908	948	830	50	52	44	274,168
11-Apr	209	243	181	657	707	612	910	942	889	51	53	50	300,286
12-Apr	198	247	162	643	715	579	901	943	881	52	54	51	285,539
13-Apr	197	224	162	648	689	585	886	909	847	52	53	50	284,214
14-Apr	210	231	163	666	701	585	924	1,037	842	51	52	49	301,966
15-Apr	198	262	164	643	728	581	981	1,007	967	50	51	49	285,516
16-Apr	232	266	71	689	738	370	978	1,022	947	51	53	49	334,327
17-Apr	228	267	0	678	742	129	988	1,004	931	52	53	50	327,658
18-Apr	180	233	0	603	696	114	929	958	880	50	51	48	259,462
19-Apr	84	191	0	305	603	67	828	913	763	45	49	40	120,960
20-Apr	213	264	186	617	683	572	968	997	913	51	52	49	307,350
21-Apr	210	285	0	595	692	74	951	997	852	51	52	46	302,144
22-Apr	222	257	0	610	677	64	961	1,006	918	52	54	51	319,041
23-Apr	230	257	0	636	688	85	965	1,007	901	53	56	50	331,263
24-Apr	242	257	198	683	715	615	1,043	1,070	1,002	57	58	56	348,275
25-Apr	245	298	0	702	772	172	998	1,037	962	57	58	55	352,957
26-Apr	263	270	241	722	736	691	1,021	1,048	998	59	60	58	378,257
27-Apr	244	258	192	709	737	605	1,001	1,043	958	58	60	56	351,621
28-Apr	216	294	0	647	752	74	940	1,011	869	55	57	50	311,481
29-Apr	194	265	0	609	747	91	867	981	799	51	56	48	279,764
30-Apr	197	205	187	610	619	594	814	839	793	46	48	45	284,368
Summary	212	312	0	622	776	28	944	1070	743	52	60	40	9,165,452
												170	115

ATTACHMENT III

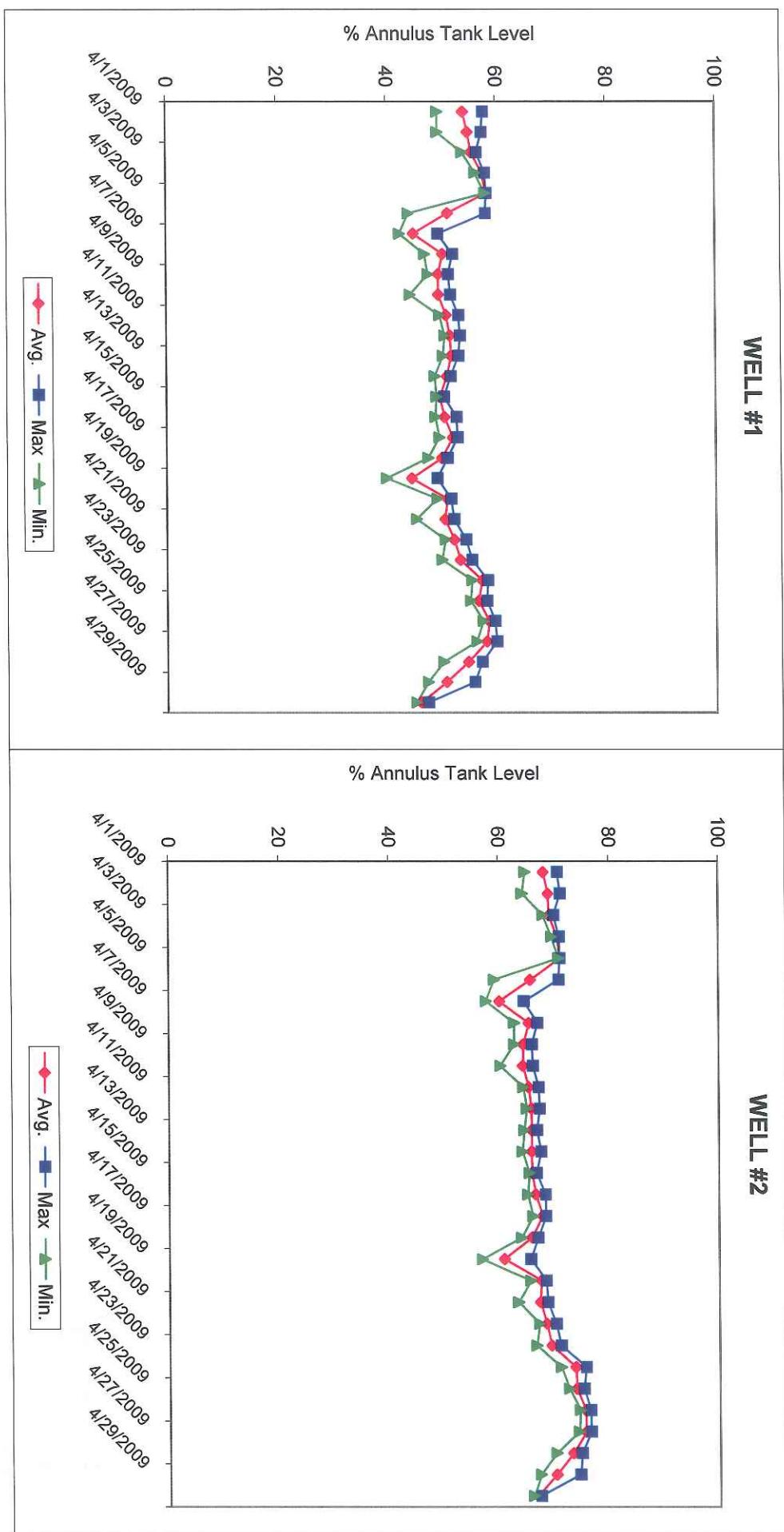
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
April, 2009

Date	Flow Rate (gpm) Avg. Max Min.	Injection Pressure (psig) Avg. Max Min.	Annulus Pressure (psig) Avg. Max Min.	Annulus Level (%) Avg. Max Min.	Total Flow/ Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note								
1-Apr	130	174	0	632	748	94	990	1,061	912	68	71	65	187,898	213	114	
2-Apr	146	186	0	668	780	66	1,009	1,070	899	69	71	64	209,803	182	115	
3-Apr	151	169	0	705	740	270	1,008	1,028	980	69	70	68	216,991	258	115	
4-Apr	162	173	0	732	757	352	1,041	1,051	1,018	71	71	70	233,219	290	118	
5-Apr	171	176	164	768	773	757	1,048	1,051	1,038	71	71	71	245,767	266	118	
6-Apr	47	174	0	289	772	38	916	1,038	793	66	71	59	67,716	260	110	
7-Apr	74	171	0	414	729	30	831	974	771	60	65	58	107,041	206	100	
8-Apr	121	158	0	647	733	119	990	1,028	936	65	67	63	174,423	256	111	
9-Apr	92	127	33	561	677	341	967	1,002	932	64	66	63	132,876	281	110	
10-Apr	105	149	0	605	703	111	961	1,002	882	64	66	60	150,613	230	109	
11-Apr	115	147	95	661	712	616	981	1,025	958	65	67	65	165,175	300	111	
12-Apr	116	148	93	647	720	583	989	1,029	968	66	67	65	166,425	299	111	
13-Apr	113	131	93	652	693	589	987	1,012	955	66	67	65	163,190	291	112	
14-Apr	120	134	93	670	706	589	986	1,028	950	66	68	64	173,356	273	112	
15-Apr	113	155	91	647	732	585	984	1,002	971	66	67	66	162,030	266	112	
16-Apr	134	160	0	693	743	370	998	1,043	965	67	68	65	192,331	261	113	
17-Apr	133	159	0	683	747	133	1,025	1,044	982	68	69	66	191,191	281	115	
18-Apr	105	139	0	607	700	118	979	1,003	941	66	67	64	151,468	302	112	
19-Apr	50	115	0	309	607	71	886	979	817	61	66	57	71,600	294	106	
20-Apr	125	160	107	621	688	576	1,018	1,036	979	68	69	66	180,195	337	115	
21-Apr	120	169	0	600	697	79	1,004	1,042	913	67	69	64	173,444	255	114	
22-Apr	126	151	0	615	682	67	1,029	1,078	997	69	70	67	181,092	327	116	
23-Apr	130	148	0	641	692	90	1,048	1,096	979	69	71	67	187,784	288	118	
24-Apr	134	147	111	687	720	620	1,099	1,149	1,032	74	76	71	193,500	328	124	
25-Apr	140	181	0	707	777	177	1,034	1,079	994	74	75	73	201,986	275	122	
26-Apr	150	158	133	727	741	696	1,074	1,107	1,046	75	76	75	216,161	312	124	
27-Apr	138	148	104	714	742	609	1,064	1,105	1,020	76	77	74	198,474	286	124	
28-Apr	125	164	0	652	757	79	986	1,031	903	73	75	70	180,214	186	120	
29-Apr	114	160	0	613	752	95	906	1,017	844	70	75	67	164,405	209	114	
30-Apr	115	121	107	613	622	598	833	844	822	67	67	66	165,523	201	108	
Summary	121	186	0	626	780	30	989	1,149	771	68	77	57	5,205,891	182	114	

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
April, 2009



ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
April, 2009



ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
April, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Apr-2008	0	0
May-2008	12	12
Jun-2008	0	12
Jul-2008	0	12
Aug-2008	0	12
Sep-2008	0	12
Oct-2008	0	12
Nov-2008	0	12
Dec-2008	0	12
Jan-2009	0	12
Feb-2009	0	12
Mar-2009	0	12
Apr-2009	0	12

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Apr-2008	0	0
May-2008	20	20
Jun-2008	0	20
Jul-2008	0	20
Aug-2008	0	20
Sep-2008	0	20
Oct-2008	0	20
Nov-2008	0	20
Dec-2008	0	20
Jan-2009	0	20
Feb-2009	0	20
Mar-2009	0	20
Apr-2009	0	20

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6747
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June 20, 2009

RECEIVED

Ms. Lisa R. Perenchio, Chief
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

JUL 2 4 2009

UIC BRANCH
EPA REGION 5

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

Dear Ms. Perenchio:

The following Monthly Report for June 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,473,220,256	Gallons
Well #2	1,448,549,960	Gallons

Volume injected year-to-date

Well #1	54,254,160	Gallons
Well #2	26,935,953	Gallons

Volume injected this month

Well #1	7,631,138	Gallons
Well #2	4,243,199	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

1. June 26, 2009: The annual deepwell annulus MIT was successfully executed and witnessed by EPA personnel. The annual pressure fall-off test was successfully executed at the same time.

Well #2: The following non-compliance event(s) occurred:

None occurred.

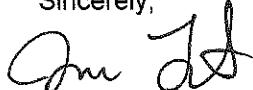
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

2. June 26, 2009: The annual deepwell annulus MIT was successfully executed and witnessed by EPA personnel.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

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JUL 24 2009

UIC BRANCH
EPA REGION 5

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

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JUL 24 2009

UIC BRANCH
EPA REGION 5

**WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY**

Client:

Criterion Catalyst
1800 East US HWY 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

WEEK ENDING	UNITS	6/1/2009	6/8/2009	6/15/2009	6/22/2009	6/29/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.80	6.70	6.90	7.05	6.85	6.86	150.1
Specific Gravity	g/mL	1.019	1.045	1.024	1.045	1.019	1.030	ASTM
Total Dissolved Solids	mg/L	23,670	45,700	29,290	46,900	32,890	35,690	160.1
Total Suspended Solids	mg/L	1.2	2.0	1.4	1.8	1.2	1.5	160.2
Sodium Oxide (Na2O)	mg/L	10.125	16.740	8.046	16.470	13.082	12.893	200.7
Aluminum Oxide (Al2O3)	mg/L	0.08	0.07	0.10	0.10	0.11	0.09	200.7
Silica (SiO2)	mg/L	1.51	0.41	2.78	0.36	0.2	1.05	200.7
Sulfate (SO4)	38,392	13,517	38,392	17,177	37,465	29,640	27,238	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. EPA, Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater.

Approved by: Mark J. Hall Date: 7/13/09

ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #1
June, 2009

Date	Flow Rate (gpm) Avg.	Flow Rate (gpm) Max.	Injection Pressure (psig) Min.	Injection Pressure (psig) Avg.	Injection Pressure (psig) Max.	Annulus Pressure (psig) Min.	Annulus Pressure (psig) Avg.	Annulus Pressure (psig) Max.	Annulus Level (%) Min.	Annulus Level (%) Avg.	Annulus Level (%) Max.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Jun	152	230	50	508	675	306	893	970	821	67	72	63	219,380	194	110
2-Jun	158	193	27	561	648	264	851	878	810	66	68	63	228,208	227	108
3-Jun	197	207	189	664	683	648	887	957	859	68	68	67	282,967	189	111
4-Jun	187	234	164	649	698	610	906	946	855	66	68	64	269,960	206	110
5-Jun	187	292	0	623	717	114	942	976	888	64	66	61	269,737	232	108
6-Jun	193	238	0	648	694	251	968	1,004	955	66	68	65	278,503	276	112
7-Jun	238	267	54	717	760	343	1,018	1,030	997	69	70	68	343,295	268	116
8-Jun	207	243	100	686	739	391	989	1,016	956	69	70	67	298,057	257	115
9-Jun	167	279	0	584	739	94	910	956	840	66	68	62	240,878	217	111
10-Jun	159	198	66	579	648	356	889	922	856	65	67	63	228,703	262	111
11-Jun	96	237	0	344	665	59	836	919	750	60	66	56	137,608	176	106
12-Jun	160	208	95	553	637	449	962	989	919	62	63	59	230,221	310	110
13-Jun	187	276	0	583	724	94	1,006	1,081	925	65	69	60	268,870	337	115
14-Jun	254	278	169	707	755	582	1,084	1,117	1,028	69	70	67	365,288	339	120
15-Jun	214	254	80	651	716	372	987	1,050	917	65	69	62	307,682	222	115
16-Jun	230	262	134	685	728	441	995	1,041	922	66	68	63	331,738	222	116
17-Jun	219	262	168	670	729	581	977	1,017	927	66	68	64	315,071	214	117
18-Jun	245	264	63	726	759	352	1,042	1,074	988	70	71	67	353,378	296	122
19-Jun	236	264	0	719	766	100	1,028	1,079	906	70	71	65	340,514	235	121
20-Jun	152	211	0	572	680	76	853	921	796	62	66	58	219,148	175	111
21-Jun	188	224	0	638	707	74	920	964	809	62	63	59	270,546	192	113
22-Jun	164	224	57	584	708	369	934	953	893	61	62	59	236,472	244	113
23-Jun	7	87	0	72	384	28	787	893	739	52	59	49	10,613	500	106
24-Jun	51	134	0	209	518	20	739	815	718	49	52	42	72,815	202	98
25-Jun	83	135	0	316	502	68	879	1,024	699	34	42	28	119,214	252	74
26-Jun	99	289	0	244	561	31	915	1,037	695	35	42	34	142,164	174	81
27-Jun	183	246	0	458	605	63	952	1,145	781	48	60	35	263,024	347	100
28-Jun	243	264	218	678	716	605	1,075	1,153	1,009	63	64	60	350,406	310	120
29-Jun	237	251	215	713	741	683	1,056	1,067	1,040	64	64	63	340,879	316	120
30-Jun	205	245	0	668	736	268	1,003	1,047	881	62	63	56	295,799	258	117
Summary	177	292	0	567	766	20	943	1153	695	62	72	28	7,631,138	174	110

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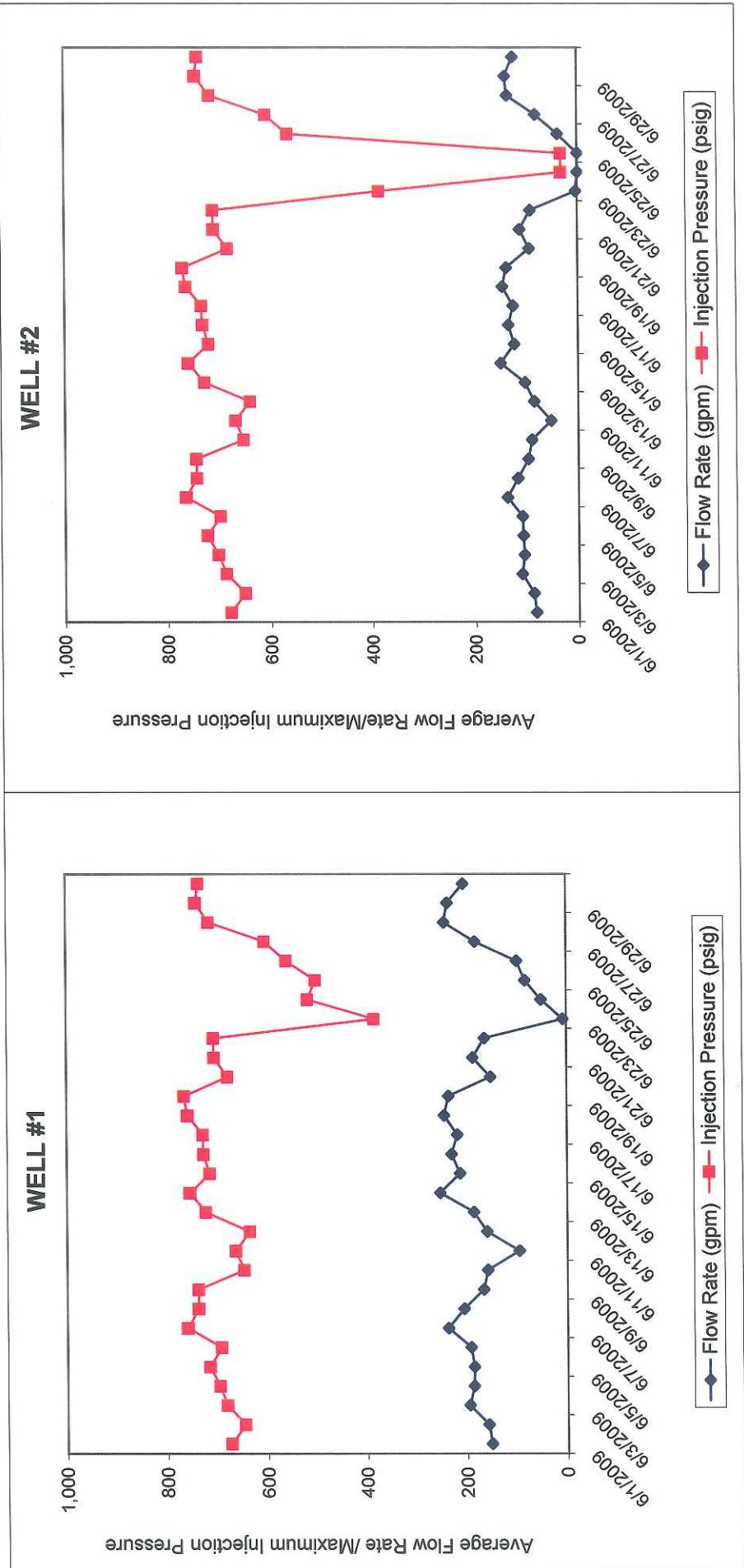
ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
June, 2009

Date	Flow Rate (gpm) Avg.	Max	Min.	Injection Pressure (psig) Avg.	Max	Min.	Annulus Pressure (psig) Avg.	Max	Min.	Annulus Level (%) Avg.	Max	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
1-Jun	83	134	0	513	680	306	944	1,033	870	65	68	61	120,207	236	109	
2-Jun	88	112	0	566	653	267	904	938	861	63	64	60	127,049	281	107	
3-Jun	111	118	104	669	689	653	942	974	928	65	66	64	159,927	252	110	
4-Jun	106	139	91	655	704	615	932	967	883	64	66	62	153,138	229	109	
5-Jun	108	181	0	628	725	118	912	938	867	63	65	61	156,023	210	108	
6-Jun	110	142	0	653	700	256	948	989	930	65	67	64	158,714	253	111	
7-Jun	139	161	0	723	766	345	1,010	1,025	989	68	68	67	199,673	257	115	
8-Jun	118	143	0	691	745	405	992	1,014	966	67	68	66	169,738	254	114	
9-Jun	98	175	0	590	746	100	929	968	869	65	66	62	140,952	219	110	
10-Jun	91	117	42	584	655	366	922	949	893	64	66	63	130,770	292	110	
11-Jun	53	143	0	350	670	65	872	940	795	61	65	57	76,961	220	105	
12-Jun	86	117	46	557	642	453	980	1,007	932	62	64	60	124,167	319	110	
13-Jun	104	170	0	589	730	100	1,038	1,126	956	65	68	61	149,457	361	114	
14-Jun	151	171	93	713	760	586	1,132	1,167	1,079	69	70	67	217,291	382	120	
15-Jun	124	153	0	656	722	376	1,042	1,104	976	66	68	63	178,703	270	114	
16-Jun	136	163	38	691	733	451	1,061	1,106	995	67	69	64	195,253	283	116	
17-Jun	126	162	91	676	735	587	1,051	1,091	1,002	67	69	65	181,834	283	116	
18-Jun	147	163	0	731	765	355	1,126	1,159	1,068	70	72	68	212,214	376	122	
19-Jun	140	162	0	724	771	105	1,119	1,167	1,009	71	72	67	201,026	322	121	
20-Jun	95	134	0	576	685	81	948	1,015	895	64	67	62	136,480	267	110	
21-Jun	113	142	0	643	712	79	972	987	915	65	66	63	162,855	269	112	
22-Jun	92	141	0	588	713	368	967	982	930	65	66	63	133,120	268	112	
23-Jun	4	46	0	77	387	33	832	930	790	57	63	55	5,177	534	106	
24-Jun	0	0	0	29	33	24	777	790	769	54	55	53	0	736	100	
25-Jun	0	0	0	30	33	21	900	1,032	763	49	53	46	0	730	95	
26-Jun	38	109	0	231	566	15	893	997	737	46	52	44	55,379	212	87	2
27-Jun	82	117	0	463	610	68	926	1,124	772	55	65	44	117,721	323	99	
28-Jun	136	158	114	683	719	610	1,094	1,141	1,034	68	69	65	196,497	332	120	
29-Jun	141	155	121	718	746	688	1,087	1,098	1,065	69	69	68	202,498	345	120	
30-Jun	125	151	0	673	742	271	1,048	1,090	936	68	69	63	180,375	299	117	
Summary	98	181	0	556	771	15	977	1,167	737	64	72	44	4,243,199	210	111	

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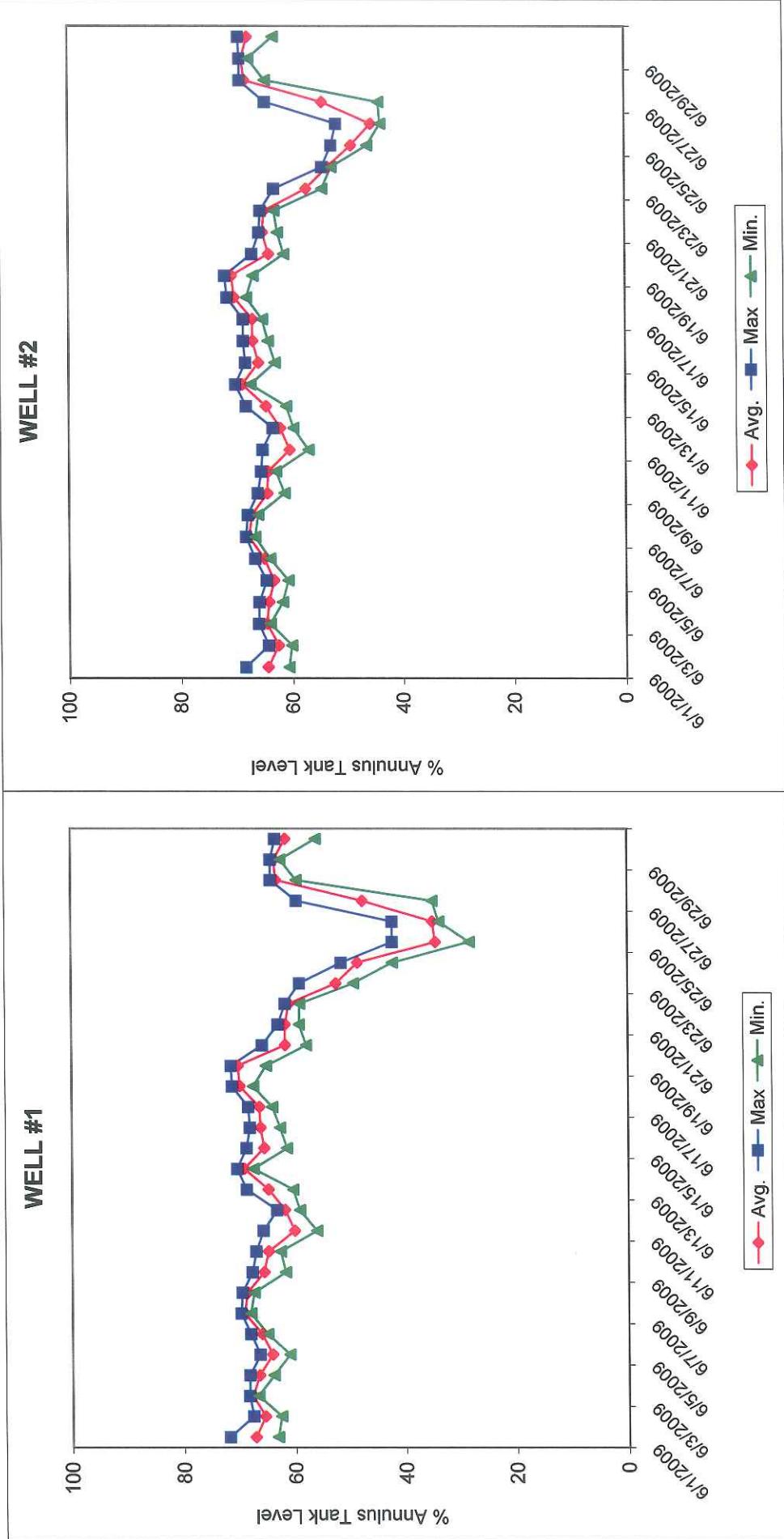
ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
June, 2009



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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
June, 2009



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ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
June, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Jun-2008	0	0
Jul-2008	0	0
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Jun-2008	0	0
Jul-2008	0	0
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

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JUL 2 4 2009

UIC BRANCH
EPA REGION 5

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6549
RETURN RECEIPT REQUESTED



August 18, 2009

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

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AUG 24 2009

UIC BRANCH
EPA REGION 5

Dear Mr. Tong:

The following Monthly Report for July 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,482,936,914	Gallons
Well #2	1,454,368,159	Gallons

Volume injected year-to-date

Well #1	63,970,817	Gallons
Well #2	32,754,153	Gallons

Volume injected this month

Well #1	9,716,657	Gallons
Well #2	5,818,200	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

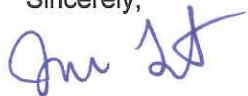
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC
2215 SOUTH MAIN
P.O. BOX 2829
SOUTH BEND, IN 46680
(574) 287-3397, (574) 287-2427 fax

WEEKLY DEEPWELL ANALYSIS
MONTH-END SUMMARY

Client:
Criterion Catalyst
1800 East US Hwy 12
Michigan City, IN 46360

Attn:
Mr. Frank Pierrat

WEEK ENDING	UNITS	7/6/2009	7/13/2009	7/19/2009	7/27/2009	AVERAGE	METHOD
pH @ 25.7 C	s.u.	6.96	7.09	7.11	7.04	7.05	150.1
Specific Gravity	g/mL	1.032	1.034	1.032	1.035	1.033	ASTM
Total Dissolved Solids	mg/L	46,930	51,676	48,682	52,748	50,009	160.1
Total Suspended Solids	mg/L	0.8	1.2	1.2	2.0	1.3	160.2
Sodium Oxide (Na2O)	mg/L	20,385	24,300	17,415	16,065	19,541	200.7
Aluminum Oxide (Al2O3)	mg/L	0.67	0.23	0.47	0.31	0.42	200.7
Silica (SiO2)	mg/L	0.22	0.17	0.50	0.24	0.28	200.7
Sulfate (SO4)	mg/L	32,344	35,613	35,036	37,115	35,027	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastewater

Approved by: J. Mueller Date: 8/7/09

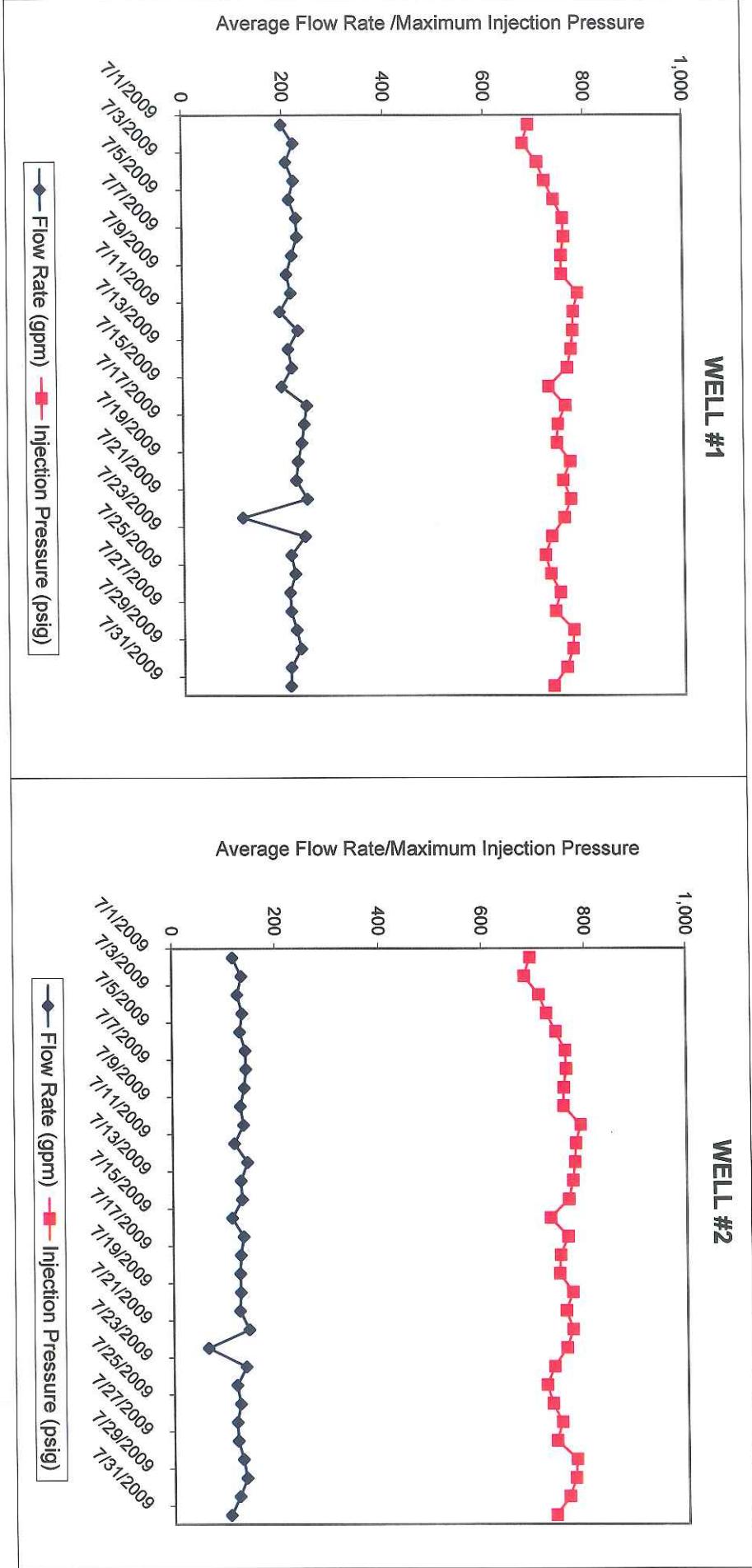
ATTACHMENT II
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #1
July, 2009

Date	Flow Rate (gpm)			Injection Pressure (psig)			Annulus Pressure (psig)			Annulus Level (%)			Total Flow Injected	Mln. Tube/Annulus Differential Pressure	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.	Avg.	Max	Min.				
1-Jul	199	226	78	640	690	335	883	902	854	57	58	56	286,628	204	110	
2-Jul	223	232	185	665	679	616	944	997	854	56	58	55	321,061	210	111	
3-Jul	208	231	0	646	707	62	979	989	924	56	56	53	299,350	264	112	
4-Jul	223	248	162	693	721	598	1,034	1,074	972	59	61	56	321,639	265	117	
5-Jul	214	247	162	692	739	596	1,036	1,073	998	59	61	58	307,862	295	118	
6-Jul	228	250	184	724	757	652	1,036	1,064	994	60	61	59	328,451	260	119	
7-Jul	229	251	190	734	759	682	1,015	1,050	963	60	61	58	330,266	220	119	
8-Jul	219	257	0	562	754	37	930	991	801	57	60	50	315,557	165	115	
9-Jul	208	262	0	658	754	48	945	983	863	58	59	54	299,820	166	117	
10-Jul	216	292	0	700	786	122	976	993	943	60	61	59	311,686	203	120	
11-Jul	195	301	0	630	777	55	964	1,040	876	56	61	49	280,145	168	116	
12-Jul	230	264	0	720	776	74	1,033	1,053	936	58	59	54	331,894	273	119	
13-Jul	211	268	19	674	772	250	969	1,016	905	56	58	52	303,131	193	116	
14-Jul	218	267	0	691	764	159	964	999	887	56	57	52	313,891	196	117	
15-Jul	197	263	0	607	727	65	984	1,114	853	50	53	45	283,892	167	113	
16-Jul	247	278	182	722	760	628	1,052	1,115	1,000	54	56	53	355,447	250	118	
17-Jul	242	258	213	725	745	681	1,035	1,064	1,012	55	56	54	347,957	273	118	
18-Jul	237	259	93	716	743	424	997	1,027	951	54	56	52	341,153	241	117	
19-Jul	229	258	168	709	769	589	996	1,019	966	54	56	53	330,073	219	116	
20-Jul	225	252	168	707	755	600	970	994	928	54	56	52	324,125	205	118	
21-Jul	247	255	117	755	770	486	999	1,017	971	55	56	54	355,347	213	119	
22-Jul	119	259	0	416	757	36	901	1,011	797	50	56	44	171,185	174	114	
23-Jul	242	265	168	710	732	570	1,046	1,068	964	50	52	46	348,530	244	117	
24-Jul	214	241	188	678	719	633	1,019	1,042	996	50	50	49	308,811	303	116	
25-Jul	222	241	0	691	729	73	1,014	1,029	952	50	51	48	319,704	271	117	
26-Jul	211	251	188	685	748	644	1,023	1,045	987	52	52	50	304,434	283	119	
27-Jul	213	240	165	690	738	589	1,018	1,046	984	51	52	50	307,139	278	118	
28-Jul	224	272	164	708	774	592	999	1,046	950	49	52	46	322,119	190	117	
29-Jul	232	272	164	718	772	587	1,004	1,036	934	48	49	45	333,964	189	116	
30-Jul	213	255	163	696	760	599	979	1,022	931	48	49	46	306,315	226	116	
31-Jul	212	241	175	694	734	611	985	1,003	976	49	50	49	305,079	244	118	
Summary	218	301	0	679	786	36	991	1115	797	54	61	44	9,716,657	165	117	

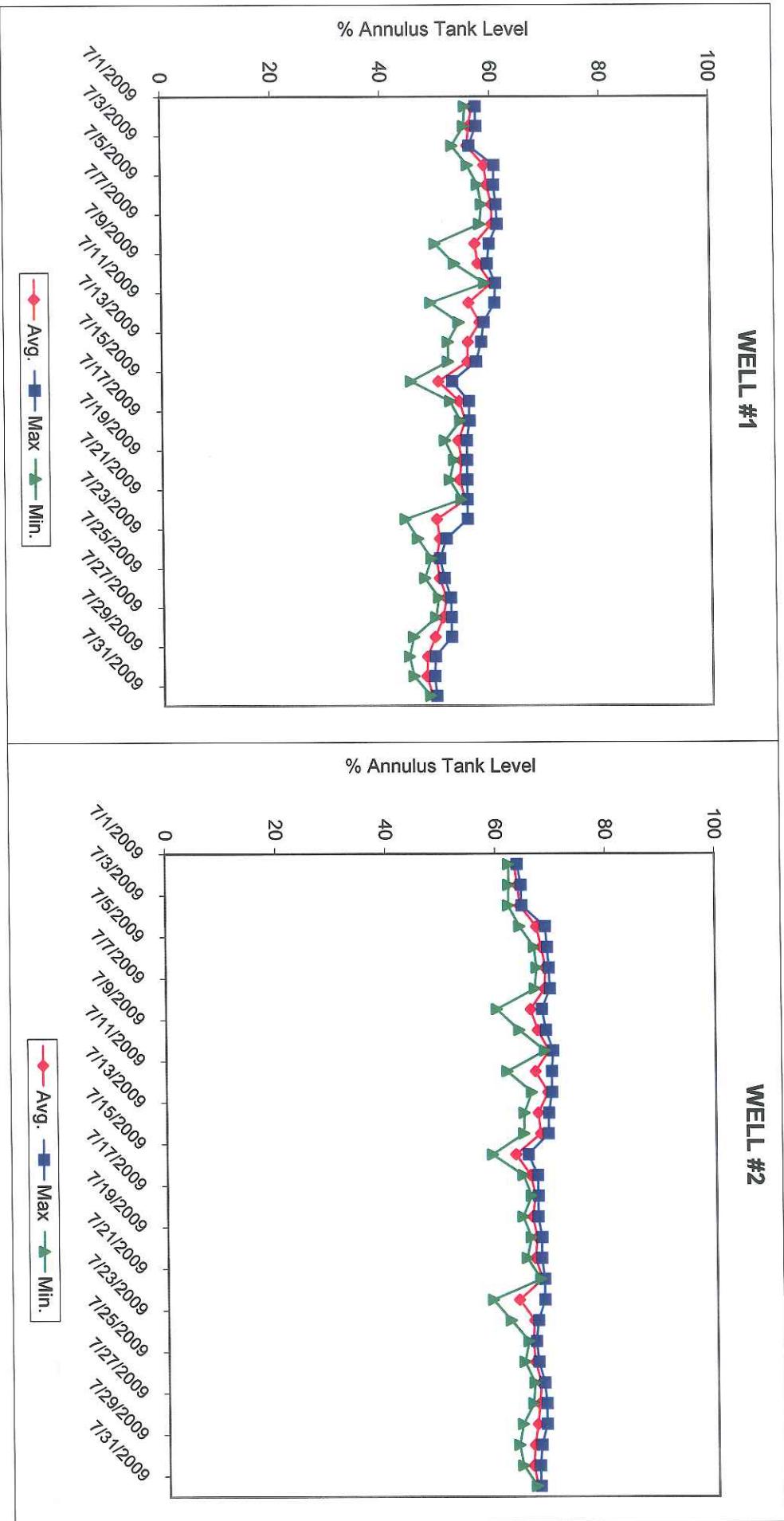
ATTACHMENT III
DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)
WELL #2
July, 2009

Date	Flow Rate (gpm) Avg.	Max	Min.	Injection Pressure (psig) Avg.	Max	Annulus Pressure (psig) Avg.	Max	Annulus Level (%) Max	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note		
1-Jul	120	141	42	645	695	347	941	955	920	64	64	63	172,399	257	109
2-Jul	136	144	111	670	684	621	953	967	920	64	65	63	196,212	275	111
3-Jul	128	146	0	650	712	67	962	971	919	64	65	62	184,969	248	111
4-Jul	137	158	97	698	726	603	1,028	1,071	961	67	69	64	197,647	249	117
5-Jul	133	160	99	697	744	601	1,045	1,077	1,007	68	69	67	191,354	301	118
6-Jul	143	164	112	728	762	656	1,060	1,083	1,018	69	70	68	206,088	280	119
7-Jul	144	164	115	739	764	686	1,051	1,083	1,001	69	70	67	207,148	254	118
8-Jul	141	173	0	567	759	42	980	1,034	855	66	68	60	202,987	203	115
9-Jul	133	171	0	661	758	30	1,002	1,040	924	68	69	64	191,397	214	117
10-Jul	139	196	0	705	791	126	1,049	1,068	1,027	70	70	69	199,917	273	120
11-Jul	121	194	0	635	782	60	985	1,061	874	67	70	62	174,838	202	115
12-Jul	146	174	0	724	780	79	1,039	1,059	964	69	70	66	210,676	276	119
13-Jul	133	192	0	679	776	250	990	1,038	930	68	70	65	191,809	212	116
14-Jul	135	171	0	696	768	163	998	1,032	926	68	69	65	194,811	232	116
15-Jul	116	163	0	609	732	59	996	1,120	873	63	66	59	166,971	194	112
16-Jul	138	162	89	727	766	632	1,099	1,126	1,057	66	67	65	198,489	303	117
17-Jul	132	147	107	730	751	686	1,101	1,126	1,078	67	68	66	190,424	334	118
18-Jul	131	149	0	722	749	422	1,073	1,101	1,027	66	67	65	188,121	312	117
19-Jul	132	153	85	714	774	594	1,081	1,106	1,050	67	68	66	190,222	305	118
20-Jul	130	154	91	712	761	606	1,066	1,097	1,024	67	68	65	187,294	295	117
21-Jul	148	156	19	760	774	495	1,092	1,103	1,080	68	69	68	212,562	316	119
22-Jul	68	165	0	421	762	41	985	1,099	887	64	69	59	98,104	203	114
23-Jul	142	166	93	715	738	574	1,037	1,056	948	67	67	62	203,954	222	117
24-Jul	123	146	104	682	723	636	1,024	1,040	1,005	66	67	66	177,344	305	116
25-Jul	130	147	0	696	734	79	1,035	1,054	985	67	67	65	186,711	288	117
26-Jul	123	155	102	689	752	648	1,058	1,077	1,027	68	68	67	177,296	316	118
27-Jul	125	148	93	694	742	594	1,050	1,085	1,020	67	69	66	179,771	301	118
28-Jul	135	173	93	713	780	596	1,036	1,085	969	67	69	64	193,830	198	116
29-Jul	141	175	93	723	778	592	1,017	1,048	951	66	68	64	203,462	203	116
30-Jul	127	164	93	700	766	604	1,006	1,040	961	66	67	64	183,019	247	115
31-Jul	110	138	85	699	740	616	1,019	1,035	1,013	67	68	67	158,374	279	117
Summary	130	196	0	684	791	30	1028	1126	855	67	70	59	5,818,200	194	116

ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
July, 2009



ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
July, 2009



ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
July, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Jul-2008	0	0
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Jul-2008	0	0
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

CERTIFIED MAIL NO.: 7004 2510 0001 2680 6532
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September 15, 2009

Mr. William Tong
United States Environmental Protection Agency
77 West Jackson Blvd (WU-16J)
Chicago, Illinois 60604-3590
ATTN: UIC Branch, Direct Implementation

Re: UIC Permits IN-091-1I-0001 and IN-091-1I-0002

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UIC BRANCH
EPA REGION 5

Dear Mr. Tong:

The following Monthly Report for August 2009 is being submitted in compliance with the referenced Permits Part II(D)(1)(a) thru (f).

The reporting data are as follows:

- (a) The analysis of the injection fluid for the month is submitted as Attachment I. Samples and measurements taken for monitoring conform to the requirements of Part I (E) (10) and Part II (C) (3) of the Permits.
- (b) A tabulation of maximum injection pressure, daily maximum and minimum annulus tank levels, and minimum differential between simultaneous measurements of injection pressure and annulus pressure for each day of the month for Well #1 and Well #2 are shown in Attachments II and III respectively.
- (c) Daily maximum injection pressure and daily average flow rate are shown for Well #1 and Well #2 in Attachment IV. Daily maximum and minimum annulus tank levels for Well #1 and Well #2 are shown in Attachment V.
- (d) A statement of the total volumes of the fluid injected to date, in the current calendar year, and the current month:

Cumulative volume injected

Well #1	1,490,686,616	Gallons
Well #2	1,458,640,855	Gallons

Volume injected year-to-date

Well #1	71,720,519	Gallons
Well #2	37,026,848	Gallons

Volume injected this month

Well #1	7,749,702	Gallons
Well #2	4,272,695	Gallons

- (e) A tabulation of the dates and amounts of water added to or removed from the annulus systems during the month, and the cumulative additions and cumulative subtractions for the current month and each of the past 13 months are included in Attachment VI for Well #1 and Well #2.
- (f) Injection operating summary of compliance, alarms and scheduled maintenance is listed below.

Well #1: The following non-compliance event(s) occurred:

None occurred.

Well #1: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Well #2: The following non-compliance event(s) occurred:

None occurred.

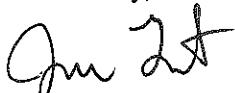
Well #2: The following alarm shutdown(s) and scheduled maintenance occurred:

None occurred.

Please note that any events in section (f) above are referenced in the notes in Attachments II and III.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at Criterion as necessary with any questions regarding this data or report.

Sincerely,



Jesse Trent
HSSE Advisor
Criterion Catalysts & Technologies L.P.

WATCON, INC
2215 SOUTH MAIN

P.O. BOX 2829

SOUTH BEND, IN 46680

(574) 287-3397, (574) 287-2427 fax

WEEKLY DEEPPWELL ANALYSIS
MONTH-END SUMMARY

Client:

Criterion Catalyst
1800 East US HWY 12
Michigan City, IN 46360

Attn:

Mr. Frank Pierrat

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EPA REGION 5

WEEK ENDING	UNITS	8/31/2009	8/10/2009	8/17/2009	8/25/2009	8/31/2009	AVERAGE	METHOD
pH @ 25.7 C	6.u.	6.77	6.83	6.78	6.71	6.75	6.77	150.1
Specific Gravity	g/mL	1.041	1.042	1.018	1.023	1.022	1.029	ASTM
Total Dissolved Solids	mg/L	48,860	49,108	15,840	20,364	19,868	30,808	160.1
Total Suspended Solids	mg/L	1.2	1.6	0.8	1.2	0.8	1.12	160.2
Sodium Oxide (Na2O)	mg/L	12,960	13,635	4,580	6,615	7,020	8,984	200.7
Aluminum Oxide (Al2O3)	mg/L	0.04	0.05	0.05	0.07	0.06	0.05	200.7
Silica (SiO2)	mg/L	0.26	0.25	1.50	5.50	5.32	2.57	200.7
Sulfate (SO4)	mg/L	33,055	33,660	8,701	11,541	11,290	19,649	A1000

All tests are run at ambient temperature.

Methods may be referenced to U.S. E.P.A. Methods for the Chemical Analysis of Water and Wastes, and Standard Methods for the Examination of Water and Wastes.

Approved by: Mark M. Wolf

Date: 9/15/09

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ATTACHMENT II

DEEPWELL MONTHLY REPORT DATA - Part II(D)(1)(b)

WELL #1

August, 2009

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UIC BRANCH
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Date	Flow Rate (gpm) Avg.	Min.	Max.	Injection Pressure (psig) Avg.	Min.	Max.	Annulus Pressure (psig) Avg.	Min.	Max.	Annulus Level (%) Avg.	Min.	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp. Note	
1-Aug	245	260	66	742	757	325	981	998	947	49	50	47	353,349	209	118
2-Aug	228	250	0	710	753	69	968	997	896	48	50	43	327,840	168	117
3-Aug	238	264	0	717	760	182	1,045	1,071	976	48	49	44	343,193	239	119
4-Aug	194	229	164	652	726	591	947	1,050	903	44	48	42	279,340	220	113
5-Aug	206	235	0	641	681	107	894	917	855	42	43	40	296,182	199	110
6-Aug	199	244	76	614	687	324	974	1,024	870	38	42	36	285,890	194	109
7-Aug	243	257	229	696	717	679	1,080	1,097	1,008	42	43	38	349,737	324	116
8-Aug	244	255	229	712	727	688	1,107	1,132	1,091	44	45	43	350,832	370	119
9-Aug	244	260	215	729	759	694	1,130	1,144	1,116	46	46	45	352,032	377	121
10-Aug	125	237	0	440	735	32	983	1,121	874	40	46	35	179,986	202	114
11-Aug	193	251	0	665	746	155	968	994	925	40	42	38	277,933	195	113
12-Aug	183	214	0	628	706	92	912	942	838	38	39	34	263,730	228	110
13-Aug	146	200	33	542	641	267	856	874	839	36	37	35	210,192	233	107
14-Aug	169	252	76	590	733	376	886	967	857	38	42	36	243,380	202	111
15-Aug	176	245	83	618	732	348	902	971	846	39	43	36	253,429	217	113
16-Aug	141	200	60	507	634	277	846	862	824	36	37	35	203,406	228	109
17-Aug	153	227	68	543	680	356	848	874	839	37	38	36	219,970	194	110
18-Aug	156	169	85	569	603	393	845	858	835	37	38	37	224,158	244	111
19-Aug	119	153	0	453	558	69	804	841	745	35	37	31	170,996	255	109
20-Aug	169	250	0	583	723	83	869	1,021	737	34	37	30	242,774	168	108
21-Aug	183	227	73	650	721	343	964	1,006	943	33	36	32	262,964	251	111
22-Aug	148	174	83	576	642	391	912	944	895	32	33	31	213,675	273	108
23-Aug	172	197	0	632	685	173	922	935	901	33	34	32	247,919	240	110
24-Aug	203	238	68	700	750	404	932	948	914	34	35	33	292,841	192	111
25-Aug	195	228	171	704	759	664	932	953	915	33	34	33	281,052	189	112
26-Aug	178	205	0	626	682	104	910	942	867	32	34	30	256,115	234	111
27-Aug	150	227	0	525	715	88	866	910	812	30	33	27	215,733	178	108
28-Aug	175	245	0	578	735	81	907	955	855	29	32	26	252,312	196	108
29-Aug	94	243	0	382	740	74	898	956	807	29	32	22	135,797	216	109
30-Aug	0	0	61	74	52	773	807	754	65	19	0	696	100		
31-Aug	113	264	0	346	663	34	858	968	753	56	61	53	162,945	166	98
Summary	174	264	0	585	760	32	926	1,144	737	38	65	19	7,749,702	166	111

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ATTACHMENT III

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WELL #2
August, 2009UIC BRANCH
EPA REGION 5

Date	Flow Rate (gpm)	Injection Pressure (psig)	Annulus Pressure (psig)	Annulus Level (%)	Total Flow Injected	Min. Tube/Annulus Differential Pressure	Temp.	Note
	Avg.	Max	Min.	Avg.	Max	Min.		
1-Aug	143	160	0	747	762	330	1,032	1,053
2-Aug	134	155	0	715	759	74	1,023	1,057
3-Aug	142	161	0	722	764	186	1,041	1,073
4-Aug	107	134	91	657	730	596	958	1,056
5-Aug	111	131	0	650	831	122	983	1,071
6-Aug	107	142	19	619	693	328	1,049	1,063
7-Aug	137	148	127	701	722	685	1,133	1,151
8-Aug	140	152	127	717	732	693	1,166	1,191
9-Aug	143	158	120	734	764	698	1,191	1,205
10-Aug	74	151	0	445	740	37	1,049	1,181
11-Aug	111	155	0	670	751	160	1,041	1,065
12-Aug	101	121	0	633	711	98	998	1,021
13-Aug	76	104	0	546	646	267	950	972
14-Aug	89	153	42	595	738	384	989	1,076
15-Aug	93	141	38	623	738	353	1,018	1,082
16-Aug	72	107	0	511	638	284	968	983
17-Aug	79	129	0	547	684	356	980	1,007
18-Aug	79	89	42	572	607	397	987	999
19-Aug	57	78	0	457	563	73	955	988
20-Aug	88	144	0	588	727	88	960	1,028
21-Aug	96	129	38	655	726	350	983	1,025
22-Aug	77	95	0	581	646	396	945	971
23-Aug	97	114	0	637	690	177	965	979
24-Aug	113	142	19	705	754	405	985	1,001
25-Aug	107	135	89	708	763	668	992	1,013
26-Aug	102	120	0	630	687	109	981	1,014
27-Aug	82	129	0	530	720	93	942	990
28-Aug	97	142	0	583	740	86	934	985
29-Aug	50	141	0	388	745	79	932	987
30-Aug	0	0	66	79	58	815	849	797
31-Aug	63	160	0	351	669	39	831	909
Summary	96	161	0	590	831	37	993	1205

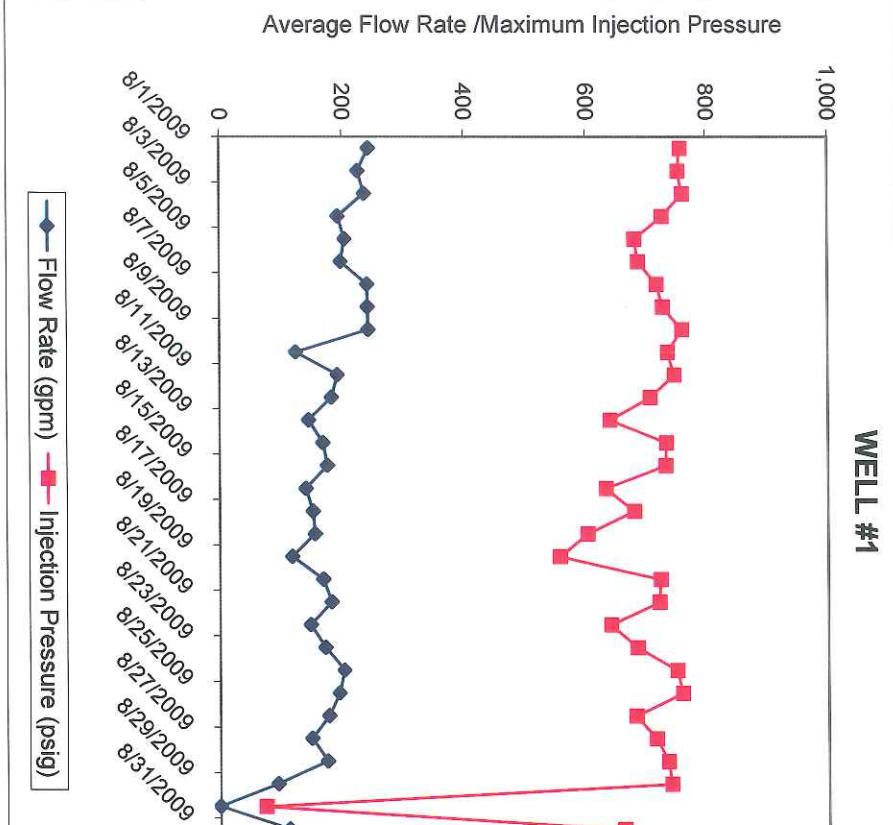
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ATTACHMENT IV
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)

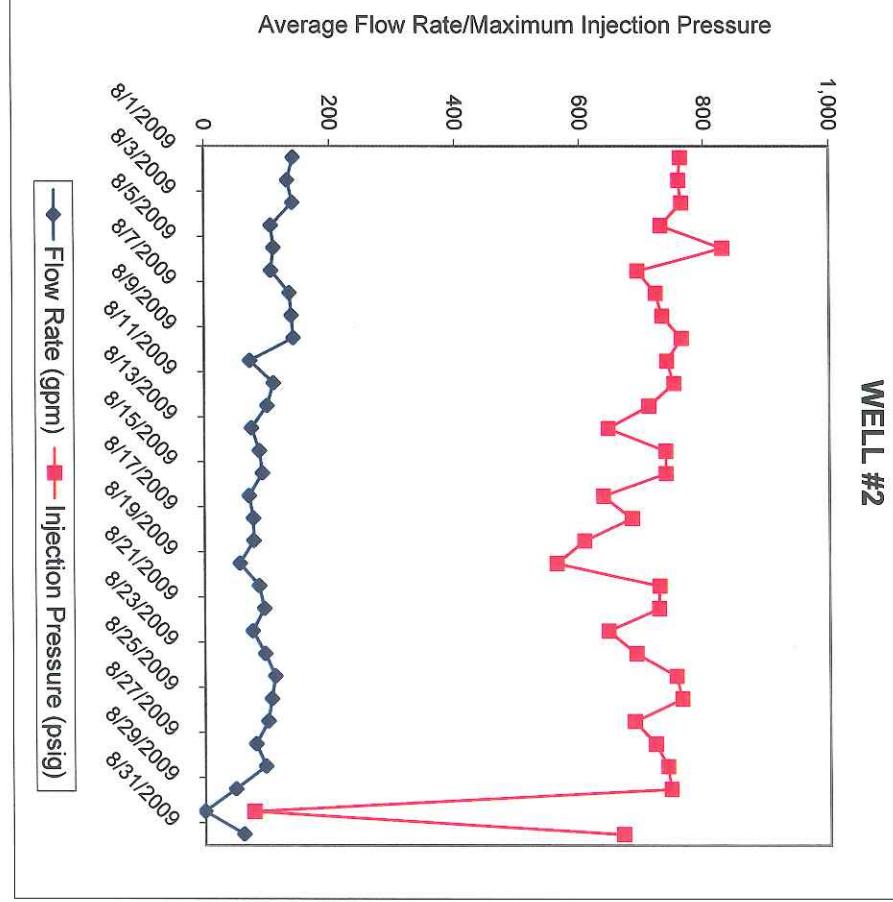
August, 2009

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WELL #1



WELL #2



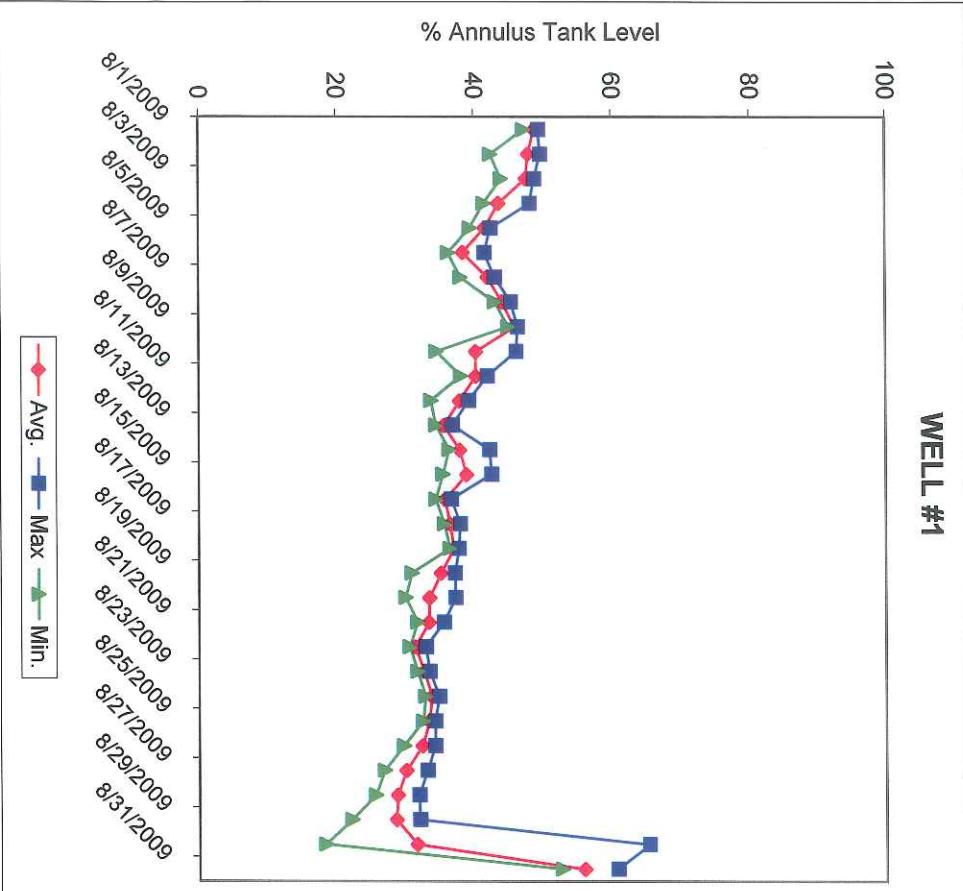
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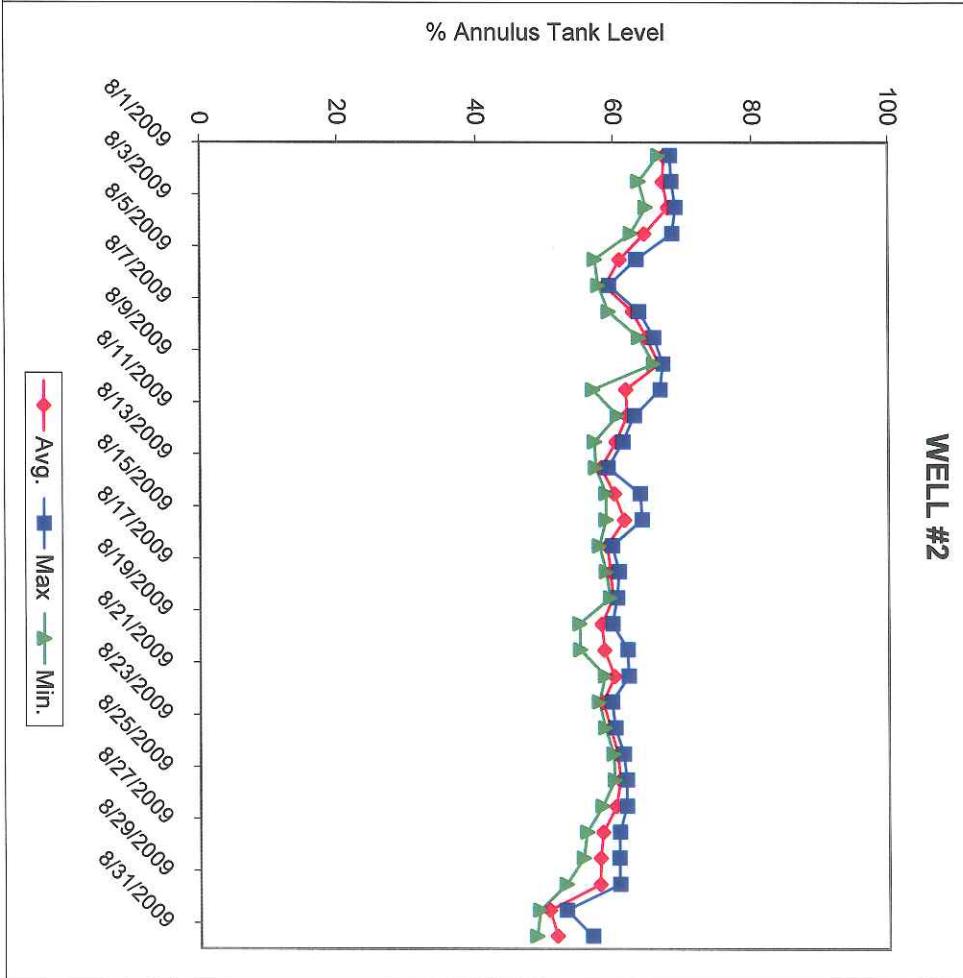
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ATTACHMENT V
DEEPWELL MONTHLY REPORT DATA Part II(D)(1)(c)
August, 2009

WELL #1



WELL #2



ATTACHMENT VI
DEEPWELL MONTHLY REPORT - Part II(D)(1)(e)
ANNULUS SYSTEM WATER ADDITIONS AND SUBTRACTIONS (In Gallons)
August, 2009

WELL #1

Date	Monthly Cumulative	13 Month Cumulative
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	-1	-1
Jun-2009	0	-1
Jul-2009	0	-1
Aug-2009	0	-1

WELL #2

Date	Monthly Cumulative	13 Month Cumulative
Aug-2008	0	0
Sep-2008	0	0
Oct-2008	0	0
Nov-2008	0	0
Dec-2008	0	0
Jan-2009	0	0
Feb-2009	0	0
Mar-2009	0	0
Apr-2009	0	0
May-2009	0	0
Jun-2009	0	0
Jul-2009	0	0
Aug-2009	0	0

Daily Well #1

Total	0

Daily Well #2

Total	0

Notes:

8/30/2009 Minor maintenance performed on Well #1 level indicator. No fluid added.

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